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First Nations Water Rights in British Columbia

A Historical Summary of the rights of the Upper Nicola First Nation

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WATER MANAGEMENT BRANCH

FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the Upper Nicola First Nation

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Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND: Upper Nicola

ADDRESS: P.O. Bag 3700, Merritt, B.C. V0K 2B0

CHIEF: Fred Holmes

PHONE: 350-3342 **FAX:** 350-3311

AFFILIATION: Nicola Valley Tribal Council

LOCATION:

The Upper Nicola Band occupies eight reserves located in the southern interior of British Columbia, east of the town of Merritt. The reserves range in size, from 6 to 9,327 hectares, and cover a total of area of 12,503.1 hectares. All of the Upper Nicola reserves, with the exception of Chapperon Creek No. 6 and Salmon Lake No. 7, have been allocated water rights. The eight reserves are:

- Chapperon Creek No. 6 - a 6-hectare reserve, located east of Chapperon Lake.
- Chapperon Lake No. 5 - a 293.4-hectare reserve, located on the west side of Chapperon Lake.
- Douglas Lake No. 3 - a 9,327.4-hectare reserve, located on Douglas Lake.
- Hamilton Creek (also Quilchena) No. 2 - a 24.3-hectare reserve, located on the east side of Nicola Lake, below Nicola Lake Reserve No. 1.
- Nicola Lake No. 1 - a 1,092.3-hectare reserve, located on the northeast side of Nicola Lake, above Hamilton Lake Reserve No. 2.
- Salmon Lake No. 7 - a 69.6-hectare reserve, located south of Hamilton Creek Reserve No. 2
- Spahomin Creek No. 4 - a 129.5-hectare reserve, located southeast of Douglas Lake Reserve No. 3.
- Spahomin Creek No. 8 - a 1,561-hectare reserve, located directly below Douglas Lake Reserve No. 3.

The most recent population figures compiled by the Ministry of Finance report that the Upper Nicola Band has 478 persons living on-reserve and 265 persons living off-reserve the total registered population of the Band is reported as 743.

Located in the Interior Plateau region of the Province, these reserves fall within two biogeoclimatic zones: the Bunchgrass zone and the Ponderosa Pine zones, which are two of the warmest and driest forest zones in B.C.. These reserves lie at elevations ranging

from 2100 feet to 4300 feet above mean sea level, and experience a climate with temperatures ranging from daily averages of -10 degrees centigrade in January to 20 degrees centigrade in July. The average annual rainfall for this area totals between 30 and 50 centimetres.

Water courses of significance include:

- Chapperon Creek - flows west from Chapperon Lake, and then southwest into Nicola River.
- Chapperon Lake - located on the eastern edge of Chapperon Lake Reserve No. 5.
- Douglas Creek - flows northeast through the southwest corner of Douglas Lake Reserve No. 3, into Spahomin Creek.
- Douglas Lake - located on the eastern border of Douglas Lake Reserve No. 3.
- Lauder Creek - flows southwest through the northwest corner of Douglas Lake Reserve No. 3, into Nicola River.
- Nicola Lake - forms the western borders of Nicola Lake Reserve No. 1 and Hamilton Lake Reserve No. 2.
- Nicola River - flows southwest through Douglas Lake, from Douglas Lake flows northwest into Nicola Lake, and from Nicola Lake flows northwest into the Thompson River.
- Quilchena Creek - flows southeast from Nicola Lake through Quilchena Reserve No. 2, then south through Salmon Lake Reserve No. 7.
- Range Creek (formerly known as Murray Creek) - flows south into Nicola River.
- Spahomin Creek - flows west through Spahomin Creek Reserve No. 4, northwest through Spahomin Creek Reserve No. 8 and north through the lower portion of Douglas Lake Reserve No. 3, before draining into Douglas Lake.
- Two small, unnamed Springs - located near the western boundary of Douglas Lake Reserve No. 3, near Douglas Lake.

WATER ALLOCATIONS:

There are no records of water allocations made through Orders-in-Council by the Lieutenant Governor in Council.

The water rights of the Upper Nicola Band have been determined by four actions of government::

1) Allotments by Indian Reserve Commissioners.

   Following confederation, the Province and the Dominion established an Indian Reserve Commission to reserve lands for the Indians and to facilitate the transfer of the lands in question to the Dominion. In setting apart lands for reserves, the Reserve Commissioners made it their practice to allot water in conjunction with the land. This practice was unique among Indian Reserves in Canada and the authority of the Commissioners to allot water rights has been disputed by the Province since.

2) Determinations of the Board of Investigation under the *Water Act, 1914* with respect to claims filed by the Department of Indian Affairs. In it's rulings the Board often recommended the issue of water licences.

3) The granting of water licences in response to Federal Government applications requesting authorization for the use of water on reserve lands.

4) Actions to amend, cancel or record as abandoned rights under licence pursuant to provisions in the *Water Act*.

HISTORY, CURRENT STATUS AND NOTES:

The history of water rights, the current status of rights and notes for the Upper Nicola Band with respect to Chapperon Creek, Chapperon Lake, Douglas Creek, Douglas Lake, Lauder Creek, Nicola Lake, Nicola River, Quilchena Creek, Range Creek (formerly Murray Creek), Spahomin Creek and two (2) small, unnamed springs are as follows:

Chapperon Creek and Lake

History:

Apr 1, 1975

1) The Comptroller of Water Rights issued Conditional Water Licence 43856 to the Minister of Indian Affairs on behalf of the Upper Nicola Band. The licence bears a precedence date of April 17, 1973, and authorizes the diversion of 440 acre feet per year (from April 1 to September 30) from Chapperon Lake, for the irrigation of 220 acres of Chapperon Lake Reserve No. 5.

Permit Over Crown Lands 9840 was granted to the Upper Nicola Band in support of Conditional Water Licence 43856. The permit authorizes the occupation of Crown Land for the construction and maintenance of works.

The Director of Indian Affairs originally applied for the right to divert 550 acre feet per annum from Chapperon Lake. The conditional licence was issued for only 440 acre feet as it was determined to be sufficient proposed irrigation area.

2) The Comptroller of Water Rights issued Conditional Water Licence 43857 to the Minister of Indian Affairs on behalf of the Upper Nicola Band. This licence was given a precedence date of April 17, 1973, and authorizes storage of 440 acre feet per year (from October 1 to June 15) in Chapperon Lake, in support of the diversion of water authorized under Conditional Water Licence 43856.

Oct 20, 1992 A Memorandum was sent by Water Licence Administration in Victoria to the Regional Water Manager in Kamloops, regarding the amendment of Conditional Licence 43857. In the memo Victoria reported that the water source on CL 43857 was not correctly identified and should be amended to read "Chapperon Creek with storage on Chapperon Lake".

No further information regarding this recommendation was located on file.

Current Status:

There are currently 5 licences on Chapperon Creek, one of which is held by the Upper Nicola Band. Of the 5 licences:

- 2 authorize the use of water for irrigation purpose, for a total of 1,074.40 acre feet per year (from April 1 to September 30).
- 2 authorize the use of water for storage - non power purpose, for a total of 2,924 acre feet per year (from October 1 to June 15).
- 1 authorizes the use of water for combined domestic and irrigation purpose, at 5,000 gallons per day, year-round for domestic use, and 1,360 acre feet from April 1 to September 30, for irrigation use.

Conditional Water Licence 43857, held by the Upper Nicola Band, is fifth in priority on Chapperon Creek.

Conditional Water Licence 43856, held by the Upper Nicola Band, is the only licence active on Chapperon Lake.

The Water Survey of Canada has no records of streamflow on Chapperon Creek or on Chapperon Lake.

Notes:

1. The amount of water allotted under Conditional Licence 43856 is less than the amount originally applied for by the Upper Nicola Band.

Douglas Creek

History:

May 11, 1922 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of a Spring on Douglas Lake Reserve No. 3 (known today as Douglas Creek) was made under authority of an Act passed prior to the 12th day of March, 1909. The Order of the Board, numbered 4491, set out that a conditional licence should be issued which would:

(i) provide for diversion from a spring on Douglas Lake No. 3;
(ii) take precedence from the 2nd day of May, 1889; and
(iii) authorize the diversion of 56 acre feet per year (from May 1 to September 30) for irrigation of 28 acres of Douglas Lake No. 3. Of the 56 acre feet allocated, 500 gallons per day, year-round should be available for domestic use.

Dec 1, 1922 The Comptroller of Water Rights issued Conditional Water Licence 6653, which embodied the terms and conditions set out in Board Order 4491.

Jan 15, 1940 Based on the extent to which the rights granted under the former licence were being exercised, the Comptroller of Water Rights issued Final Licence 10855, in substitution of Conditional Water Licence 6653 to the Director of Indian Affairs on behalf of the Upper Nicola Band. Final Licence 10855 was assigned a date of precedence of May 2, 1889 and authorizes the diversion of 20 acre feet of water,

from May 1 to September 30, from Douglas Creek, for irrigation on 10 acres of Douglas Lake Reserve No. 3.

Current Status:

Final Water Licence 10855, held by the Upper Nicola Band, is the only active licence on Douglas Creek. There is no information on file with regard to the current exercise of rights under this licence.

The Water Survey of Canada has no records of streamflow on Douglas Creek. No other sources of water availability data were located during the course of this study.

Notes:

1. The issue of Final Water Licence 10855 in substitution for Conditional Licence 6653, reduced the licensed water rights of the Upper Nicola Band on Douglas Creek.

Douglas Lake

History:

Aug 21, 1989 In response to applications for 'Change of Works' and 'Change of Purpose' filed by the Upper Nicola Band, the Comptroller of Water Rights issued Conditional Water Licence 67154 in partial substitution of Final Water Licence 10854. Conditional Licence 67154 was assigned a date of precedence of May 2, 1889 and authorizes the diversion of 20,000 gallons per day, year-round from Spahomin Creek and Douglas Lake, for industrial (institutions) purpose on the Spahomin School Project, located on Douglas Lake Reserve No. 3.

Permit Over Crown Lands 17460 was granted to the Upper Nicola Band in conjunction with Conditional Licence 67154. The permit authorizes the occupation of Crown Land for construction and maintenance of works.

Current Status:

There is currently one licence, CL 67154, held by the Upper Nicola Band on Douglas Lake. Conditional Licence 67154 is first in priority on the Lake.

The Water Survey of Canada streamflow records for Douglas Lake.

Notes:

1. There is no additional information with respect to the rights of the Upper Nicola Band on Douglas Lake.

Lauder Creek

History:

Apr 29, 1992 The Upper Nicola Band applied for a Water Licence to divert 200 acre feet of water per year from Lauder Creek into Loon Lake on Douglas Lake Reserve No. 3, for storage purpose. No further information regarding the status of this application has been filed.

Current Status:

There are currently 4 licences and 1 application on Lauder Creek; the application is held by the Upper Nicola Band. Of the 4 licences:

- 2 authorize the use of water for storage - non power purpose, for a total of 359 acre feet per year, valid from October 1 to June 15.
- 1 authorizes the use of water for domestic and irrigation purpose, for 500 gallons per day, year-round for domestic use, and 159 acre feet, from April 1 to September 30, for irrigation use.
- 1 authorizes the use of water for irrigation purpose, for 200 acre feet, from April 1 to September 30.

The Upper Nicola Band holds application 104763, which is fifth in priority on Lauder Creek.

The Water Survey of Canada has no streamflow records for Lauder Creek. No other sources of water availability data were located during the course of this study.

Notes:

1. The Upper Nicola Band submitted an application (Z 104763) on Lauder Creek in 1992. The application is still outstanding.

Nicola Lake

History:

Feb 1, 1968 In response to an application filed by the Superintendent General of Indian Affairs on behalf of the Upper Nicola Band, the Comptroller of Water Rights issued Conditional Water Licence 32982. The licence was assigned a date of precedence of December 23, 1966 and authorizes the diversion of 10,000 gallons of water per day from Nicola Lake, year-round for waterworks purpose on Nicola Lake Reserve No. 1.

Current Status:

There are currently five licences and seven applications on Nicola Lake. Of the licences:

- 3 authorize the use of water for irrigation purpose, for a total of 1,858.5 acre feet per year, valid from April 1 to September 30.
- 1 authorizes the use of water for domestic purpose, for 500 gallons per day, year-round.
- 1 authorizes the use of water for waterworks (other), at 10,000 gallons per day, year-round.

Of the applications:

- 2 request authorization to divert water for irrigation purpose, for a total of 1,300 acre feet per year, from April 1 to September 30.
- 3 request authorization for domestic use, for a total of 1,050 gallons per day, year-round.
- 1 requests authorization for domestic and irrigation purpose, for 1,000 gallons per day, year-round for domestic use, and 276 acre feet, from April 1 to September 30, for irrigation use.
- 1 requests authorization to divert water for combined domestic, irrigation and storage - non power use; 1,000 gallons per day, year-round is requested for domestic, 75 acre feet per year, year-round is requested for storage and 25 acre feet per year, from April 1 to September 30 is requested for irrigation.

The Upper Nicola Band holds Conditional Water Licence 32982, which is fourth in priority on Nicola Lake.

Nicola River and all tributaries are listed in Water Management files as being fully recorded for all purposes without complete backup storage.

The Water Survey of Canada has no streamflow records for Nicola Lake.

Notes:

1. Conditional Water Licence 32982 authorizes the diversion of water for waterworks purpose. Accordingly, the Nicola Lake drainage area could be designated as a Community Watershed under provisions contained in the Forest Practices Code.

Nicola River

History:

Sep 28, 1878 A decision of the Indian Reserve Commission (IRC) allotted the following to the Upper Nicola Indians:

> *"235 inches from Upper Nicola River, that is Nicola River above Nicola Lake"*

Note: The reference to an inch of water is understood to be a "miner's inch" of water. The *Water Act, 1914* defined a miner's inch as being equal to a flow of .028 cubic feet per second. This rate of flow calculated over a 120 day irrigation season converts to the equivalent 6.664 acre feet for each miner's inch.

May 11, 1922 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to use of the waters of Upper Nicola River, was made under authority of an Act passed prior to the 12th day of March, 1909. The Order of the Board, numbered 3797, set out that a conditional licence should be issued which would:

(i) provide for diversion of water from Upper Nicola River;
(ii) take precedence from the 2nd day of May, 1889; and
(iii) authorize the diversion of 835 acre feet, from May 1 to September 30 annually, for the irrigation of 334 acres of Nicola Lake No. 1. Of the 835 acre feet, 10,000 gallons per day, was recommended for year-round domestic use.

Dec 1, 1922 The Comptroller of Water Rights issued Conditional Water Licence 6648, which embodied the terms and conditions set out in Board Order 3797.

Nov 20, 1923 In accordance with an application made by W.C. Dallin, Indian Agent, on behalf of the Upper Nicola Band, the Comptroller of

Water Rights issued Conditional Water Licence 7239. The licence was given a precedence date of June 20, 1923 and authorizes the diversion of 35 acre feet of water, from April 1 to September 30 from Nicola River for the irrigation of 17.5 acres of a portion of Douglas Lake Reserve No. 3. Of the 35 acre feet allocated, 500 gallons per day, year-round, is authorized for domestic use.

Dec 15, 1939 Final Water Licence 10822 was issued in substitution of Conditional Water Licence 6648 in response to the extent to which rights granted under the former licence were being exercised. Final Licence 10822 was issued to the Director of Indian Affairs on behalf of the Upper Nicola Band. The licence was given a date of precedence of May 2, 1889 and authorizes the diversion of 475.5 acre feet, from May 1 to September 30, from Nicola River, for irrigation purposes on 190.2 acres of Nicola Lake Reserve No. 1.

Mar 15, 1940 Final Water Licence 10903 was issued in substitution of Conditional Water Licence 7239, in response to the exercise of rights authorized under the conditional licence. Final Licence 10903 was issued to the Director of Indian Affairs on behalf of the Upper Nicola Band with a precedence date of May 2, 1889. The licence authorized the diversion of 35 acre feet, from April 1 to September 30, from Nicola River, for irrigation purposes on 17.5 acres of a portion of Nicola Lake Reserve No. 1.

Aug 15, 1940 In accordance with an application filed by the Director of Indian Affairs on behalf of the Upper Nicola Band, the Comptroller of Water Rights issued Conditional Water Licence 14557. The licence was assigned a precedence date of June 21, 1940 and authorized the diversion of 17.5 acre feet, from April 1 to September 30, from the Nicola River for the irrigation of 7 acres of that portion of Douglas Lake Reserve No. 3 situated east of D.L. 681, K.D.Y.D. Of the total volume allocated, 500 gallons per day, year-round, was authorized for domestic use.

Feb 15, 1943 The Comptroller of Water Rights issued Final Water Licence 11811 in substitution of Conditional Water Licence 14557, in response to the exercise of rights authorized under the conditional licence. Final Licence 11811 was issued to the Director of Indian Affairs on behalf of the Upper Nicola Band and was assigned a precedence date of June 21, 1940. The licence authorizes the diversion of 17.5 acre feet, from April 1 to September 30, from Nicola River, for irrigation on 7 acres of that portion of Douglas Lake Reserve No. 3 situated east of D.L. 681, K.D.Y.D.

Aug 7, 1987 Upon review of an application for a Change of Works made by the Upper Nicola Band, the Comptroller of Water Rights issued Conditional Water Licence 65616 in substitution of Final Water Licence 10903. Conditional Licence 65616 was assigned a date of precedence of June 20, 1923 and authorizes the diversion of 33 acre feet, from April 1 to September 30, from Nicola River, for irrigation purposes on 17.5 acres of Douglas Lake Reserve No. 3.

Jan 20, 1988 The Regional Water Manager in Kamloops issued an Order amending Conditional Water Licence 65616. Clause (e) of the licence was amended to read:

> *"the maximum quantity of water which may be diverted is 35 acre feet per year".*

Current Status:

There are seven licences active on Nicola River, between Douglas and Nicola Lakes. Three of the seven licences are held by the Upper Nicola Band. Of the seven total licences:

- 4 authorize the use of water for irrigation purposes, at a total of 728 acre feet, from October 1 to June 15.
- 3 authorize the use of water for combined domestic and irrigation purposes, at a total of 6,000 gallons per day, year-round for domestic use, and 557.5 acre feet, from April 1 to September 30, for irrigation use.

The Upper Nicola Band holds Final Water Licence 10822, Conditional Water Licence 65616, and Final Water Licence 11811 which are respectively, second, fifth, and seventh in priority on Nicola River.

Nicola River and all tributaries are listed as being fully recorded for all purposes without complete backup storage. An Engineer's report, dated December 14, 1982 and completed for a third party application on Nicola River stated that,

> *"Due to the large consumptive water use on the mainstem and many tributaries, the Nicola River has a lengthening history of late summer water temperatures too high for fish to tolerate....I have concluded that the base flow in the entire Nicola watershed is fully committed if the fishery resource is to be protected. Storage must be provided in support of any future diversions for any purpose."*

The Water Survey of Canada has operated six stations on Nicola River at various times between 1911 and 1990. Three stations, 08LG049 (Nicola River above Nicola Lake), 08LG065 (Nicola River at outlet of Nicola Lake), and 08LG028 (Nicola River near Douglas Lake) are located in the vicinity of the Upper Nicola Reserves.

- Station 08LG049 operated from April to September during the years 1915 through 1917, and in 1923. During the years 1965 to 1990 the station operated year round. For those periods the station recorded a minimum daily discharge of 0.013 m^3/sec (October 30, 1987) and a maximum daily discharge of 56.6 m^3/sec (May 17, 1969). Mean monthly discharges averaged a low of 0.627 m^3/sec in October and a high of 16 m^3/sec in June.

- Station 08LG065 operated from 1983 to 1990. During this period the station recorded a minimum daily discharge of 0.036 m^3/sec (January 13, 1988) and a maximum daily discharge of 43.5 m^3/sec (June 21, 1990). Mean monthly discharges averaged 1.36 m^3/sec in December and rose to highs of 18.5 m^3/sec in June.

- Station 08LG028 operated from April to October in 1929, 1930 and 1947. For these periods, the station recorded a minimum daily discharge of 0.0 m^3/sec (October 6, 1929) and a maximum daily discharge of 13.5 m^3/sec (June 11, 1929). Mean monthly discharges averaged lows of 0.001 m^3/sec in October and rose to highs of 8.59 m^3/sec in May.

Notes:

1. The allotment of water recommended under Board Order 3797 and authorized through Conditional Licence 6648, is significantly less than the original 1878 Indian Reserve Commission allocation.

2. The Upper Nicola Band's rights to water from Nicola River, as allocated by the Indian Reserve Commission in 1878, have not been formally recognized by the Province.

3. The issue of Final Water Licence 10822 in substitution of Conditional Licence 6648, resulted in a reduction in licenced rights for the Upper Nicola Band on Nicola River.

4. The issue of Final Water Licence 10903 in substitution of Conditional Water Licence 7239, resulted in the loss of licensed water rights for the Upper Nicola Band on Nicola River. Final licence 10903 has been substituted by Conditional Licence 65616, which reflects the reduction in allocation.

6. A 1982 Engineer's report indicates that the Nicola River is fully recorded for all purposes without complete storage. Licences issued without provisions for storage will impact fishery resources in Nicola River and its tributaries.

Quilchena Creek

History:

May 11, 1922 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of Quilchena Creek was made under authority of an Act passed prior to the 12th day of March, 1909. The Order of the Board, numbered 3706, set out that a conditional licence should be issued which would:

(i) provide for the diversion of water from Quilchena Creek;
(ii) take precedence from the 2nd day of May, 1889; and
(iii) authorize the diversion of a maximum of 75 acre feet, from May 1 through to September 30, for the irrigation of 30 acres of Quilchena Reserve No. 2. Of this quantity, 500 gallons per day, year-round, was recommended for domestic use.

Dec 1, 1922 The Comptroller of Water Rights issued Conditional Water Licence 6647, which embodied the terms and conditions set out in Board Order 3706.

Nov 20, 1934 In response to the use of rights authorized under Conditional Licence 6647, the Comptroller of Water Rights issued Final Water Licence 9005, in substitution of Conditional Water Licence 6647. Final Licence 9005 was issued in the name of the Superintendent General of Indian Affairs, on behalf of the Upper Nicola Band. The licence was assigned a date of precedence of May 2, 1889 and authorizes the diversion of 75 acre feet, from May 1 to September 30, from Quilchena Creek, for irrigation purposes on 30 acres of Quilchena Reserve No. 2. Of the total 75 acre feet allocated, 500 gallons per day is authorized for year-round domestic use.

Current Status:

There are currently eleven licences on Quilchena Creek, one of which is held by the Upper Nicola Band. Of the licences:

- 6 authorize the use of water for combined domestic and irrigation purpose. A total of 9,000 gallons per day, year-round is authorized for domestic use, and a total of 1,557 acre feet, from April 1 to September 30, is allocated for irrigation use.
- 3 authorize the use of water for irrigation purpose, for a total of 541 acre feet, from April 1 to September 30.

- 1 authorizes the use of water for combined irrigation and storage - non power purpose: 257 acre feet is authorized for irrigation, from April 1 to September 30. Associated storage is authorized from October 1 to June 15.
- 1 authorizes the use of water for conservation - storage purpose, at 98 acre feet, from October 1 to June 15.

The Upper Nicola Band holds Final Water Licence 9005, which is fourth in priority on Quilchena Creek. There is no information on file with respect to the recent exercise of rights authorized under this licence.

Quilchena Creek is reported in stream register records as fully recorded unless full back up storage is provided.

The Water Survey of Canada operated station 08LG017 on Quilchena Creek from April to November, 1933 and year round, between 1965 and 1975. During these periods, the station recorded a minimum daily discharge (0.0 m^3/sec) on July 17, 1970, and a maximum daily discharge (18.1 m^3/sec) on June 11, 1968. Mean monthly discharges reached lows of 0.393 m^3/sec in October and rose to highs of 4.68 m^3/sec in June.

Notes:

1. There is no additional information with respect to the rights of the Upper Nicola Band on Quilchena Creek.

Range Creek (formerly Murray Creek)

History:

Sep 28, 1878 A decision of the Indian Reserve Commission allotted the following to the Upper Nicola Indians:

"200 inches from Murray Creek"

Murray Creek is known today as Range Creek.

Note: The reference to an inch of water is understood to be a "miner's inch" of water. The *Water Act, 1914* defined a miner's inch as being equal to a flow of .028 cubic feet per second. This rate of flow calculated over a 120 day irrigation season converts to the equivalent 6.664 acre feet for each miner's inch.

Current Status:

There are currently two (2) licences on Range Creek, none of which are held by the Upper Nicola Band. Of the licences:

- 1 authorizes the use of water for combined domestic and irrigation purpose, for 500 gallons per day, year-round for domestic use, and 264 acre feet, from April 1 to September 30, for irrigation use.
- 1 authorizes the use of water for irrigation purpose, at 122 acre feet, from April 1 to September 30.

Nicola River and all tributaries, including Range Creek, are listed as being fully recorded for all purposes without the provision of full backup storage.

The Water Survey of Canada has no records of streamflow on Range Creek.

Notes:

1. The Upper Nicola Band's rights to the waters of Range Creek, as allocated in 1878 by the Indian Reserve Commission, have not been formally recognized by the Province.

Spahomin Creek

History:

Sep 28, 1878 A decision of the Indian Reserve Commission allotted the following to the Upper Nicola Indians:

"800 inches from Spah-o-min Creek".

Note: The reference to an inch of water is understood to be a "miner's inch" of water. The *Water Act, 1914* defined a miner's inch as being equal to a flow of .028 cubic feet per second. This rate of flow calculated over a 120 day irrigation season converts to the equivalent 6.664 acre feet for each miner's inch.

May 11, 1922 At a final hearing of the Board of Investigation, acting pursuant to the Water Act of 1914, it was determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of Spahomin Creek was made under authority of an Act passed prior to the 12th day of March, 1909. A Order of the Board, numbered 3808, was issued which recommended that a conditional licence be issued which would:

(i) provide for the diversion of water from Spahomin Creek;
(ii) take precedence from the 2nd day of May, 1889; and
(iii) authorize the diversion of a maximum of 3,836 acre feet, from May 1 to September 30, for the irrigation of 1,918 acres of Douglas Lake Reserve No. 3. Of the total quantity allocated, 100,000 gallons per day, year-round was to be made available for domestic use.

Dec 1, 1922 The Comptroller of Water Rights issued Conditional Water Licence 6649, which embodied the terms and conditions set out in Board Order 3808.

Nov 20, 1923 The Comptroller of Water Rights issued Conditional Water Licence 7245, which bears a precedence date of June 20, 1923, and authorizes the diversion of 268 acre feet, from April 1 to September 30, from Spahomin Creek for irrigation purpose on 134 acres of Spahomin Creek Reserve No. 8. Of the total 268 acre feet allocated, 1000 gallons per day, year-round is authorized for domestic use.

In the original application, 400 acre feet of water per year was requested. A lesser quantity was authorized as it was determined to be sufficient for the proposed irrigation area.

Nov 30, 1923 In accordance with an application filed by A.H. Barber, Indian Agent, on behalf of the Upper Nicola Band, the Comptroller of Water Rights issued Conditional Water Licence 7305. The licence was assigned a precedence date of June 20, 1923, and authorizes the diversion of 60 acre feet of water, from April 1 to September 30, from Spahomin Creek for irrigation purpose on 30 acres of Spahomin Creek Reserve No. 4. Of the total volume allocated, 500 gallons per day, year-round was authorized for domestic use.

Apr 12, 1934 In connection with Conditional Water Licence 7305, a Right of Way Over Crown Lands was granted to the Upper Nicola Band. This permit authorizes the occupation of Crown Land for the construction and maintenance of works.

Dec 17, 1934 In response to an application filed by A.H. Barber, Indian Agent, on behalf of the Upper Nicola Band, the Comptroller of Water Rights granted an extension of time, to December 31, 1935 to allow for the completion of works associated with Conditional Water Licences 7245 and 7305.

Jan 9, 1936 The Department of Indian Affairs, on behalf of the Upper Nicola Band, applied for an extension of time for the completion of works associated with Conditional Licences 6649, 7245 and 7305.

Feb 6, 1936 The Comptroller of Water Rights refused the above application, due to water shortages on Spahomin Creek. The licences, however, were not canceled.

Dec 29, 1939 The Comptroller of Water Rights notified W.C. Dallin, Indian Agent for the Upper Nicola Band, that unless the works associated with Conditional Water Licence 7305 were completed before March 1, 1940, the licence would be canceled.

Jan 15, 1940 In response to the exercise of rights authorized under conditional licence 7245, the Comptroller of Water Rights issued Final Water Licence 10853, in substitution, to the Director of Indian Affairs on behalf of the Upper Nicola Band. The licence was given a date of precedence of June 20, 1923 and authorizes the diversion of 217 acre feet, from April 1 to September 30, from Spahomin Creek, for irrigation purposes on 108.5 acres of Spahomin Creek Reserve No. 8.

The Upper Nicola Band had applied for an increase of duty of water. Most licences are issued with a 2 acre feet duty. The Engineer's report for Final Water Licence 10853 noted that the 2 acre feet duty of water would be sufficient for the associated class of land.

A lesser quantity was authorized when of Final Water Licence 10853 was issued in substitution of Conditional Water Licence 7245. The lesser volume was determined to be sufficient for the proposed irrigation area.

Jan 15, 1940 In response to the exercise of rights authorized under Conditional Water Licence 6649, the Comptroller of Water Rights issued Final Water Licence 10854, in substitution. Final Licence 10854 was issued in the name of the Director of Indian Affairs on behalf of the Upper Nicola Band. The licence was given a date of precedence of May 2, 1889 and authorizes the diversion of 2586.2 acre feet, from May 1 to September 30, from Spahomin Creek, for irrigation purposes on 1293.1 acres of Douglas Lake Reserve No. 3. Of the total volume allocated , 20,000 gallons per day, year-round is authorized for domestic use.

Jan 7, 1943

Upon learning that many of the Indians on Spahomin Creek Reserve No. 4 had enlisted and were therefore not available to complete the construction of works associated with Conditional Water Licence 7305, the Comptroller of Water Rights granted an extension of time, to December 31, 1945 for completion of works associated with the licence.

Dec 1, 1969

The Comptroller of Water Rights issued Conditional Water Licences 35029 and 35030 to the Superintendent General of Indian Affairs, in accordance with two applications filed by the same office.

1) Conditional Water Licence 35029 bears a precedence date of February 23, 1967, and authorizes the diversion of 1,500 acre feet of water, from April 1 to September 30, from Spahomin Creek for irrigation purpose. The licence is appurtenant to Douglas Lake Reserve No. 3 and Spahomin Creek Reserve No. 8, between which 500 acres may be irrigated.

2) Conditional Water Licence 35030, bears a precedence date of February 13, 1969, and authorizes storage of 1,500 acre feet , from October 1 to June 15, on Spahomin Creek, in support of the diversion of water authorized under Conditional Water Licence 35029.

The Superintendent General of Indian Affairs originally applied for authorization to divert 6,000 acre feet of water a year from Spahomin Creek. A lesser quantity was authorized as it was determined to be sufficient for the proposed irrigation area.

Aug 21, 1989

In accordance with an application filed by the Upper Nicola Band for a change of works and a change of purpose, the Comptroller of Water Rights issued Conditional Water Licence 67154 and Final Water Licence 67155. The 2 licences substituted Final Water Licence 10854. Both licences bear a date of precedence of May 2, 1889.

1) Conditional Water Licence 67154 authorizes the diversion of 20,000 gallons per day, year-round from Spahomin Creek and Douglas Lake, for industrial (institutions) use on the Spahomin School Project, situated on Douglas Lake Reserve No. 3.

   In connection with Conditional Water Licence 67154, Permit Over Crown Lands 17460 was granted to the Upper Nicola

Band. The permit authorizes the occupation of Crown Land for the construction and maintenance of works.

2) Final Water Licence 67155 authorizes the diversion of 2586.2 acre feet of water, from May 1 to September 30, from Spahomin Creek, for irrigation purpose on 1293.1 acres of Douglas Lake Reserve No. 3.

Nov 4, 1992 The Upper Nicola Band applied for a Water Licence to divert 500 litres of water per minute from Spahomin Creek, for use on Spahomin Creek Reserve No. 4. No recent information regarding the status of this application is located on file.

Current Status:

There are currently eight licences and one outstanding application on Spahomin Creek. Six of the licences, and the one application are registered in the name the Upper Nicola Band. Of the licences:

- 3 authorize the use of water for irrigation purpose, for a total of 4303.2 acre feet, from April 1 to September 30.
- 1 authorizes the use of water for ponds purpose, for a total of 337.40 acre feet, from October 1 to June 15.
- 1 authorizes the use of water for combined domestic and irrigation purpose: 500 gallons per day, year-round is authorized for domestic use, and 60 acre feet, from April 1 to September 30, is authorized for irrigation use.
- 1 authorizes the use of water for institutional purpose, at 20,000 gallons per day, year-round.
- 1 authorizes the use of water for conservation - construct works purpose.
- 1 authorizes the storage of 1,500 acre feet, from October 1 to June 30.

The Upper Nicola Band holds Conditional Water Licence 67154, Final Water Licence 67155, Conditional Water Licence 7305, Final Water Licence 10853 and Conditional Water Licences 35029 and 35030 which are respectively first, second, third, fourth and sixth and seventh in priority on Spahomin Creek.

The Water Survey of Canada operated two (2) stations Spahomin Creek:

- Station 08LG018 (Spahomin Creek near Douglas Lake) operated from April to September during the years extending from 1921 through 1930, and in 1967. During these periods, the station recorded a minimum daily discharge of 0.0 m^3/sec (April 1, 1925), and a maximum daily discharge of 6.8 m^3/sec (May 27, 1924). Mean monthly discharges reached lows in the order of 0.095 m^3/sec in September and rose to highs of approximately 2.22 m^3/sec in June.

- Station 08LG060 (Spahomin Creek near the mouth) operated from 1972 to 1990, during which it recorded a minimum daily discharge of 0.00 m^3/sec on October 4, 1979 and a maximum daily discharge of 7.9 m^3/sec on June 21, 1974. Mean monthly discharges reached a low of 0.106 m^3/sec in November and rose to a high of 2.74 m^3/sec in June.

Notes:

1. The allotment of water recommended under Board Order 3808 and authorized under Conditional Licence 6649, is significantly less than the amount of water allocated originally in 1878 by the Indian Reserve Commission.

2. The Upper Nicola Band's rights to the water of Spahomin Creek, as allocated by the Indian Reserve Commission in 1878, has not been formally recognized by the Province.

3. The amount of water authorized under Conditional Licence 7245 is less than the amount originally applied for by the Upper Nicola Band.

4. The issue of Final Water Licence 10853 in substitution of Conditional Licence 7245, resulted in a reduction of licensed water rights for the Upper Nicola Band on Spahomin Creek.

5. The issue of Final Water Licence 10854 in substitution of Conditional Licence 6649, resulted in a reduction of licensed water rights for the Upper Nicola Band on Spahomin Creek. The water rights authorized under Conditional Water Licences 67154 and 67155, which were issued in substitution of Final Water Licence 10854, are consistent with the rights allocated in the former licence (Final Water Licence 10854).

6. The rights authorized under Conditional Licences 35029 and 35030 are significantly less than those originally applied for by the Upper Nicola Band.

7. The Upper Nicola Band has an outstanding application (since 1992) for a water licence on Spahomin Creek.

Two small, unnamed springs

History:

Sep 28, 1878 A decision of the Indian Reserve Commission allotted the following to the Upper Nicola Indians:

> *"10 inches from two Springs near the western boundary of the reserve at foot of Douglas Lake, as shown on the Plan"*

The location of these streams has not been determined. The status of allocation on the two Springs is unknown.

Note: The reference to an inch of water is understood to be a "miner's inch" of water. The *Water Act, 1914* defined a miner's inch as being equal to a flow of .028 cubic feet per second. This rate of flow calculated over a 120 day irrigation season converts to the equivalent 6.664 acre feet for each miner's inch

Notes:

1. The Upper Nicola Band's rights to the waters of two springs located on the western edge of the Douglas Lake No. 3, as allocated in 1878 by the Indian Reserve Commission, have not been formally recognized by the Province.

OTHER INFORMATION:

Schedule of Indian Reserves in the Dominion, 1913:

The Schedule of Indian Reserves in the Dominion, 1913, is a document published by the federal government, recording each Band's water allocations up to 1913. It is believed that the records are a compilation of Minute of Decisions, Order-in-Councils, and other relevant documents. As original copies of the documents are unavailable, the dates and information contained in them cannot be verified.

Allocations in the *Schedule of Indian Reserves in the Dominion* for the benefit of the Upper Nicola Band which are inconsistent with our findings are:

Reserve	Water Allocation
Nicola Lake No. 1	*200 inches of water recorded from Nicola River.*

Hamilton Creek Fishery or Quilchena No. 2	*50 inches of water recorded from Quilchena Creek.*
Douglas Lake No. 3	*100 inches from a lake at the head of Lauder Creek; 50 inches from a spring on the southwest side of the Reserve.*
Spahomin Creek No. 4	*50 inches of water recorded from Spahomin Creek.*
Chapperon Lake No, 5	*50 inches of water recorded from Murray Creek.*
Note: Today "Murray Creek" is known today as Range Creek.	
Chapperon Creek Fishery No. 6	*25 inches of water recorded from Upper Chapperon Creek.*

Alternate Water Sources

Groundwater Records:

A review of records maintained by the MELP Groundwater Section found that 3 wells have been reported on Quilchena Reserve No. 2. Further details regarding the size and extent of these wells is located in Appendix 8. The extent to which the wells are currently utilized is unknown.

As the provision of well information to the groundwater section is voluntary, this review should not be assumed to be complete.

Municipal Water Supply:

At this time the potential for water supply from a municipality is limited. There are no municipal water systems in the proximity of the Upper Nicola reserves.

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Chapperon Lake	1973/04/17	Chapperon Lake #5	0316758	CL 43856	Current		440 AF/Irrigation	CL 43856 - Allocation volume: Less than that originally applied for.
Chapperon Lake	1973/04/17	Chapperon Lake #5	0316758	CL 43857	Current		440 AF/Storage (storage for CL 43856)	
Douglas Creek	1889/05/02	Douglas Lake #3	0004491	CL 6653	Current		56 AF/Irrigation 500 GAD/Domestic	CL 6653: Issued based on recommendations contained in Board Order 4491. Water Source: originally specified "*spring marked 'D' on water rights map 6165*"; later recognized as Douglas Creek.
Douglas Creek	1889/05/02	Douglas Lake #3	0241025	FL 10855	Current		20 AF/Irrigation	FL 10855: Substitution of CL 6653 resulted in loss of licenced rights.
Lauder Creek	1992/05/14	Douglas Lake #3	3002248	Z104763	Current		200 AF/Storage - non power	Z104763: Application outstanding since 1992.

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Nicola Lake	1966/12/23	Nicola Lake #1	0270893	CL 32982	Current		10,000 GAD/ Waterworks	CL 32982: Purpose of licence qualifies the Nicola Lake drainage area for designation as a "community watershed" under provisions contained in the Forest Practices Code.
Nicola River	1878/09/28			MOD			*"235 inches from the Upper Nicola River"* (converted equivalent = 1436 AF)	IRC Allocations: Not formally recognized by the Province.
Nicola River	1889/05/02	Nicola Lake #1	0241026	CL 6648	Superceded	FL 10822	835 AF/ Irrigation, 10,000 GAD/Domestic	CL 6648: Based on recommendations contained in Board Order 3797. Allocation Volume: Less than 1878 IRC allocation.
Nicola River	1889/05/02	Nicola Lake #1	0241026	FL 10822	Current		475.5 AF/Irrigation	FL 10822: Substitution of CL 6648 resulted in loss of licenced rights. Water Source - Nicola River: As of 1982 recorded as "Fully recorded without full back-up storage".

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Nicola River	1923/06/20	Douglas Lake #3	0047917	CL 7239	Superceded	FL 10903	35 AF/Irrigation, 500 GAD/Domestic	
Nicola River	1923/06/20	Douglas Lake #3	0047917	FL 10903	Superceded	CL 65616	35 AF/Irrigation	FL 10903: Substitution of CL 7239 resulted in loss of licenced rights.
Nicola River	1923/06/20	Douglas Lake #3	0047917	CL 65616	Current		35 AF/Irrigation	Water Source - Nicola River: As of 1982 recorded as "*Fully recorded without full back-up storage*".
Nicola River	1940/06/21	Douglas Lake #3	0140063	CL 14557	Superceded	FL 11811	17.5 AF/Irrigation, 500 GAD/Domestic	
Nicola River	1940/06/21	Douglas Lake #3	0140063	FL 11811	Current		17.5 AF/Irrigation	Water Source - Nicola River: As of 1982 recorded as "*Fully recorded without full back-up storage*".
Quilchena Creek	1889/05/02	Hamilton #2	0241027	CL 6647	Superceded	FL 9005	75 AF/ Irrigation, 500 GAD/Domestic	CL 6647: Based on terms and conditions specified in Board Order 3706.
Quilchena Creek	1889/05/02	Hamilton #2	0241027	FL 9005	Current		75 AF/Irrigation, 500 GAD/Domestic	

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Range Creek	1878/09/28			MOD			"*200 inches from Murray's Creek*" (converted equivalent - 1222 AF)	Water Source: Originally specified as "*Murray Creek*"; watercourse has been since renamed "*Range Creek*". IRC Allocation: Not formally recognized by Province.
Spahomin Creek	1878/09/28			MOD			"*800 inches from Spah-o-min Creek*" (converted equivalent - 4888 AF)	Water Source: Originally specified as "*Murray Creek*"; watercourse has been since renamed "*Range Creek*". IRC Allocation: Not formally recognized by province.
Spahomin Creek	1889/05/02	Douglas Lake #3	0241024	CL 6649	Superceded	FL 10854	3836 AF/ Irrigation, 100,000 GAD/Domestic	Allocation Volume: Significantly less than original 1878 IRC Allocation.
Spahomin Creek	1889/05/02	Douglas Lake #3	0241024	FL 10854	Superceded	CL 67154 FL 67155	2586.2 AF/Irrigation, 20,000 GAD/Domestic	FL 10854: Substitution of CL 6649 resulted in loss of licenced rights.

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Spahomin Creek and Douglas Lake	1889/05/02	Douglas Lake #3	0241024	CL 67154	Current		20,000 GAD/Industrial (Institutions)	
Spahomin Creek	1889/05/02	Douglas Lake #3	0241024	FL 67155	Current		2586.20 AF/Irrigation	
Spahomin Creek	1923/06/20	Spahomin Creek #8	0047915	CL 7245	Superceded	FL 10853	268 AF/ Irrigation, 1000 GAD/Domestic	CL 7245: Allocation volume less than that originally applied for.
Spahomin Creek	1923/06/20	Spahomin Creek #8	0047915	FL 10853	Current		217 AF/Irrigation	FL 10853: Substitution of CL 7245 resulted in loss of licenced rights.
Spahomin Creek	1923/06/20	Spahomin Creek #4	0047916	CL 7305	Current		60 AF/Irrigation, 500 GAD/Domestic	
Spahomin Creek	1967/02/23	Douglas Lake #3, Spahomin Creek #8	0273081	CL 35029	Current		1500 AF/Irrigation	CL 35029: Allocation volume significantly less than that originally applied for.
Spahomin Creek	1969/02/13	Douglas Lake #3, Spahomin Creek #8	0285198	CL 35030	Current		1500 AF/Storage (Storage for CL 35029)	CL 35030: Allocation volume significantly less than that originally applied for.
Spahomin Creek	1992/11/10	Spahomin Creek #8	3002363	Z105666	Current		500 GAD/Ponds	Z105666: Application outstanding since 1992.

Summary of Water Rights Records

Upper Nicola First Nation

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
"*two unnamed springs*"	1878/09/28	Douglas Lake #3		MOD			"*10 inches from two springs*" (converted equivalent - 66.64 AF)	IRC Allocation: Not formally recognized by Province. Water Source: specified as "*two springs near the western boundary of the reserve at the foot of Douglas Lake*"; present location cannot be determined from this description.

~~manner as the Chief Commissioner of Lands & Works, and the Superintendent General of Indian Affairs or his agent may appoint.~~

Assiginack, Nicholas, Sandusaga

(Shebahcotton's tribe)

Inches	Sources of Supply.
2.3.5	Assiginack, Nicola River, that is Nicola River above Nicola Lake
800	Spark's main branch.
200	Murray branch.
10	Two springs near the western boundary of the reserve at foot of Douglas Lake, as shown on the Plan.

28th Sept. 1878

Province of British Columbia

WATER LICENCE APPLICATION

MINISTRY OF ENVIRONMENT
RECEIVED
1992
KAMLOOPS, B.C.

PLEASE REFER TO GUIDE NOTES. TO BE ACCEPTED, THIS APPLICATION MUST BE COMPLETED FULLY AND ACCOMPANIED BY A ~~$35.00~~ 75.00 APPLICATION FEE.

FILE NO: 3002248

PLEASE PRINT FIRMLY (Do Not Erase)

1. Name	Upper Nicola Indian Band
Mailing Address	Apt. # / Street # / Street / Post Office Box # (Old): 3700
	City: Merritt / Province: B.C. / Postal Code: V0K 2B0
Property Address If Different	N/A
	Home Tel: FAX # 350-3311 / Business Tel: 350-3342 / Message Tel: 350-3342
2. Source	Discharges into:
3. Purpose and Quantity	Domestic _____ gallons a day. Irrigation _____ number of acres. Storage _____ acre feet a year. Other (Specify) See attachment
4. Place of Use 92I/1E	Legal description of property where water is to be used: Douglas Lake I.R.3 - diversion of Lauder Creek into Loon Lake of I.R.#3 and flows back to Lauder Creek.
Tenure to Land	Registered Owner ☐ Lessee ☐ Other Indian Reserve
5. Works 2104763 028843 008357	THE PROPOSED WORKS WILL CONSIST OF: Pipe ☐ Irrigation System ☐ Trough ☑ Tank ☐ Storage Works: Height of Dam _____ ft. Construction Material Natural terrain. Maximum Area of Reservoir _____ ac. Quantity of Water Stored 200 ac. ft. Other Works: ditching Joint Works ☐ Other users:
6. Point of Diversion Storage Site	Location: See attached
7. Lands Affected	The works will physically affect (by crossing or flooding) the following lands: Legal Description of Land Affected: Diversion will be on Indian Reserve property. Name of Owner (including Crown): Upper Nicola Indian Band.
8. Any Additional Relevant Information	See attachment. Remaining Volume Available - Requested.

NOTE: A sketch must accompany your application. See guide notes, item 9, for sketch requirements.

Applicant's Signature: Wain Manuel Agent's Signature: Date: April 29/92

FOR OFFICIAL USE ONLY:

This is to certify that the sum of _____ dollars ($ _____) as received from the undersigned for payment of application for water licence.

Applicant (please print) _____ Date _____ N/A Received By _____

Receipt Number _____

To be removed and forwarded with Batch Transmittal Sheet

...nce of
...sh Columbia

WATER LICENCE APPLICATION

PLEASE REFER TO GUIDE NOTES. TO BE ACCEPTED, THIS APPLICATION MUST BE COMPLETED FULLY AND ACCOMPANIED BY A $2[illegible] APPLICATION FEE.

PLEASE PRINT FIRMLY (Do Not Erase) FILE NO: 3002363

1. Name

UPPER NICOLA INDIAN BAND

Mailing Address

Apt. # | Street # | Street: BAG 3700 | Post Office Box #

City: MERRITT | Province: B.C. | Postal Code: V0K 2B0

Property Address if Different

Home Tel: | Business Tel: 350-3342 | Message Tel:

2. Source

SPAHOMIN CREEK Discharges into: SPAHOMIN CREEK

3. Purpose and Quantity

Domestic _____ gallons a day. Irrigation _____ number of acres.

Storage _____ acre feet a year. Other (Specify) 500 litres / min.

4. Place of Use

UNL 61

Legal description of property where water is to be used: UPPER NICOLA INDIAN BAND LAND – ~~EAST~~ NORTH EAST END OF SMITHERS FIELD

Tenure to Land

Registered Owner ☐ Lessee ☐ Other

5. Works

THE PROPOSED WORKS WILL CONSIST OF: SEE ATTACHED DIAGRAM

Pipe ☐ Irrigation System ☐ Trough ☐ Tank ☐

Storage Works: Height of Dam _____ ft. Construction Material _____

Maximum Area of Reservoir _____ ac. Quantity of Water Stored _____ ac. ft.

Other Works: Joint Works ☐ Other users:

F4843
N105666

6. Point of Diversion/ Storage Site

Location: MAP SHEET 92-I/1

UTM 943 555

7. Lands Affected

The works will physically affect (by crossing or flooding) the following lands:

Legal Description of Land Affected	Name of Owner (including Crown)
UPPER NICOLA INDIAN BAND LAND	

8. Any Additional Relevant Information

MINISTRY OF ENVIRONMENT
RECEIVED
NOV 10 1992
KAMLOOPS, B.C.

NOTE: A sketch must accompany your application; see guide notes, item 9, for sketch requirements.

RECEIVED
WATER MANAGEMENT
BRANCH
NOV 30 1992

Chief Fred Wilson. _____ Nov. 4/92.

Applicant's Signature Agent's Signature Date

FOR OFFICIAL USE ONLY:

This is to certify that the sum of _____ dollars ($ _____)
was received from the undersigned for payment of application for water licence.

N/A

Applicant (please print) Date Received By

Receipt Number

To be removed and forwarded with Batch Transmittal Sheet

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For a n Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 3706, a duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Quilchena Indian Reserve, No.2 of the Upper Nicola Indians.

Superseded by Final Licence 9905.

Made and entered this 1st day of December, 1922.

E. A. Cleveland

Comptroller of Water Rights.

No. 6647

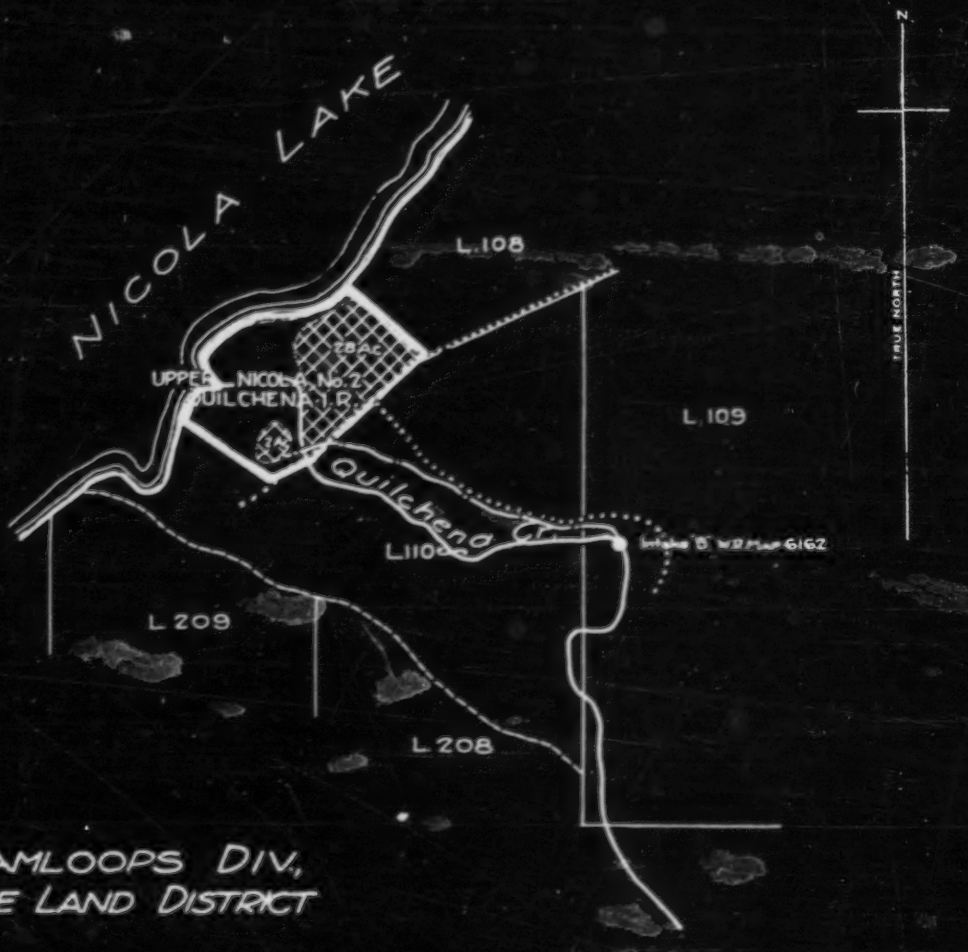
Form No. 1006, W.R.B. (Licence in respect of Board Order)—1,500-12-21—5397.

British Columbia

To accompany Board Order No. 3706

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



KAMLOOPS DIV.,
YALE LAND DISTRICT

LEGEND
Intake ●
Ditch
Road
The boundaries of the land to which this licence is appurtenant are shewn shaded.
30 acres within the said boundaries are claimed to be irrigable.

Description of Works constructed,
Ditch

Signature E. Hammond
J. Alexander

C.L. 6647 B.O. 3706
File 13-5-1

95 6m.

EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

DETERMINATION AND ORDER

BY THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

In the Matter of the "Indian Water Claims Act" (Chapter 19 of the Statutes of British Columbia, 1921, Second Session), and

In the Matter of an Indian Water Claim respecting the diversion and use of water from

Quilchena Creek. File 13-5-1.

ON THE 11th day of May, 1922,

the above matter having come on for hearing in the presence of Mr. J. H. Ellis, K.C., of Counsel for the Department of Indian Affairs, and Mr. J. Quichon on behalf of himself and other users of the waters of Quilchena Creek and after notice to all persons holding or claiming to hold water rights on said Quilchena Creek and all and every the steps required by the Act to be taken having been taken by the Board; and the Board being fully advised in the premises, determines that the right of the Upper Nicola Indians to take water from Quilchena Creek for use on Quilchena Indian Reserve, No.2 of the Upper Nicola Indians, has been established.

AND THE BOARD DOTH ORDER the Comptroller of Water Rights to issue a Conditional Licence in respect of the said Indian Water Claim embodying the following terms and conditions:—

1. The source of the water-supply is Quilchena Creek, a tributary of Nicola Lake.

2. The point or points of diversion from the stream or streams are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

3. The date from which the licence shall take precedence is 2nd day of May, 1889.

4. The purpose for which the water is to be used is irrigation and incidentally domestic use.

5. The maximum quantity of water which may be diverted for use upon the lands mentioned in clause 7 hereof when all of the said lands are under irrigation is, until lawfully altered, 75 acre-feet per annum and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is two and a half acre-feet: Provided that of the said 75 acre-feet there may be used 500 gallons of water a day throughout the whole year for domestic purposes.

W.R.B. 563 250-6-22 7963.

Board Order No. 3706.

6. The period of the year during which the water may be used is 1st May to 30th September.

7. The area and description of the lands upon which the water may be used are 30 acres, comprising parts of Quilchena Indian Reserve, being Reserve No. 2 of the Upper Nicola Indians. The extent and location of the said lands are further shown in the said Exhibit "A."

8. The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1927.

9. Works for the diversion and the carriage of the water as set forth in the exhibit marked "B," which is hereto attached and made a part hereof, shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction shall be commenced or resumed on or before the 1st day of June, 1923.

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1927.

10. Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

11. The licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clause 1 hereof and complete information obtained respecting the requirements of all the lands watered therefrom, and the licensee shall surrender the licence for amendment when called upon to do so.

12. The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

MADE AND ENTERED this 1st day of December, 1922.

THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

By E. A. Cleveland, *Chairman,*

and J. S. T. Alexander, *Member.*

Board Order No. 3706.

PROVINCE OF BRITISH COLUMBIA. | WATER RIGHTS BRANCH. | DEPARTMENT OF LANDS.

EXHIBIT "B."

(Forming part of an Order of the Board numbered as noted at the foot of this sheet.)

The works which are required to be completed before the issue of a final licence are as follows:—

The clearing, stumping and levelling of the irrigable land to which the licence is appurtenant, and the works necessary for conducting the water thereto.

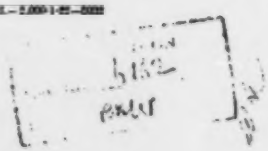
BOARD OF INVESTIGATION.

By E. A. Cleveland., *Chairman,*

and J. S. T. Alexander, *Member.*

Board Order No. 3700.

Form 56L. W.R.B.—1,000-1-25—2222



PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 3797, a dupliente of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Nicola Lake Indian Reserve, No.1 of the Upper Nicola tribe or band of Indians.

...ed by 10897
Final Licence

Made and entered this 1st day of December, 1922.

E. A. Cleveland
Comptroller of Water Rights.

No. 1648

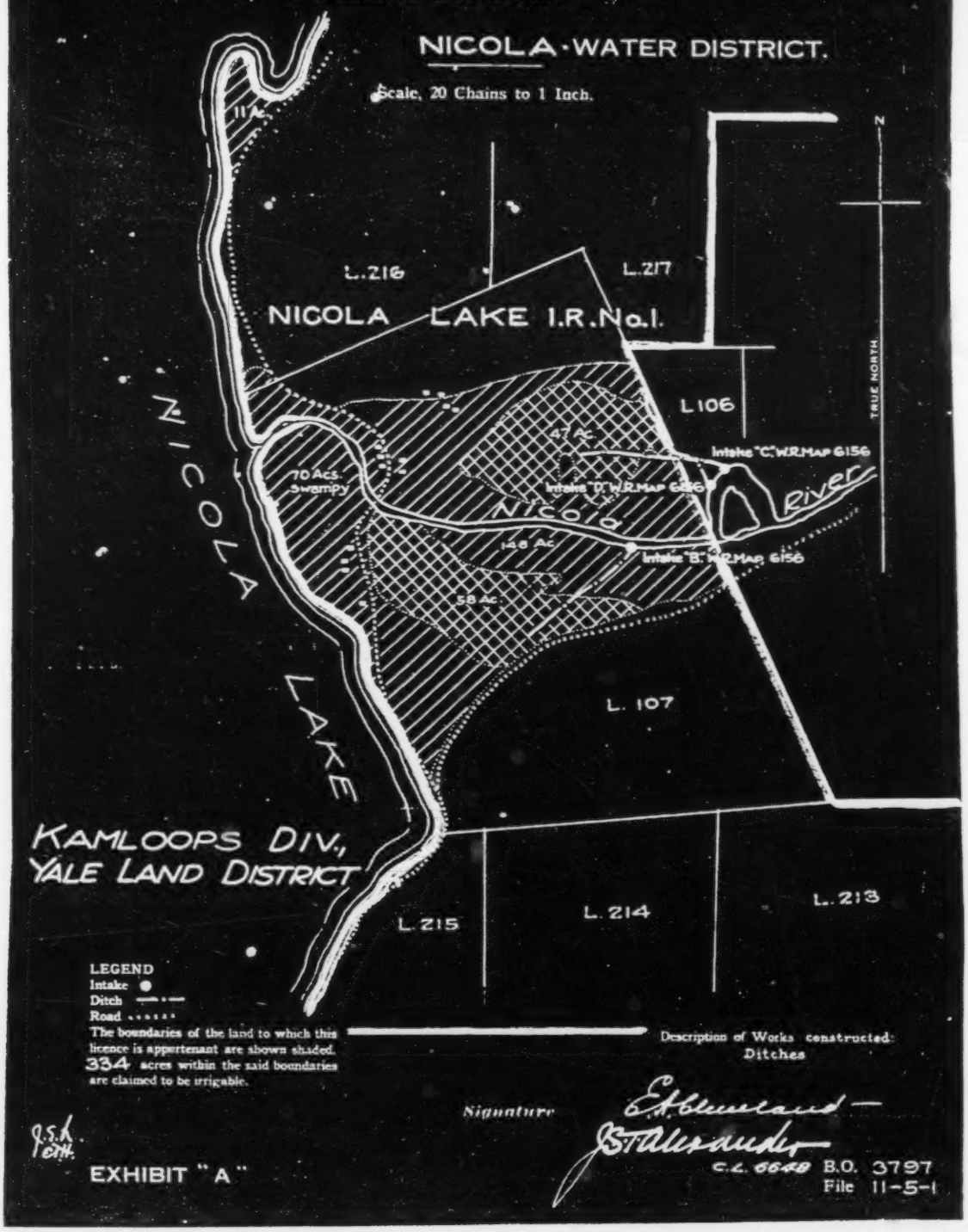
Form No. 1006, W.R.B. (Licence in respect of Board Order)—1,500-12-21—5397.

British Columbia

To accompany Board Order No. 3797

NICOLA · WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



LEGEND
Intake ●
Ditch —·—
Road ·····

The boundaries of the land to which this licence is appertenant are shown shaded.
334 acres within the said boundaries are claimed to be irrigable.

Description of Works constructed:
Ditches

Signature E. T. Blumenauer
J. S. Alexander

C.L. 6648 B.O. 3797
File 11-5-1

P.S.A. 6th.

EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA. | WATER RIGHTS BRANCH. | DEPARTMENT OF LANDS.

DETERMINATION AND ORDER

BY THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

In the Matter of the "Indian Water Claims Act" (Chapter 19 of the Statutes of British Columbia, 1921, Second Session), and

In the Matter of an Indian Water Claim respecting the diversion and use of water from

Upper Nicola River. File 11-5-1.

ON THE 11th day of May, 1922,

the above matter having come on for hearing in the presence of Mr. J. E. Ellis, K.C., of Counsel for the Department of Indian Affairs,

and after notice to all persons holding or claiming to hold water rights on said Upper Nicola River and all and every the steps required by the Act to be taken having been taken by the Board; and the Board being fully advised in the premises, determines that the right of the Upper Nicola Indians to take water from Upper Nicola River

for use on Nicola Lake Indian Reserve, No.1 of the Upper Nicola tribe or band of Indians has been established.

AND THE BOARD DOTH ORDER the Comptroller of Water Rights to issue a Conditional Licence in respect of the said Indian Water Claim embodying the following terms and conditions:—

1. The source of the water-supply is Upper Nicola River, a tributary of Nicola Lake.

2. The point or points of diversion from the stream or streams are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

3. The date from which the licence shall take precedence is 2nd day of May, 1889.

4. The purpose for which the water is to be used is irrigation and incidentally domestic use.

5. The maximum quantity of water which may be diverted for use upon the lands mentioned in clause 7 hereof when all of the said lands are under irrigation is, until lawfully altered, 835 acre-feet per annum and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is Two and a half acre-feet: Provided that of the said 835 acre-feet there may be used 10,000 gallons of water a day throughout the whole year for domestic purposes.

W.R.B. 563—250-6-22—7963.

Board Order No. 3797.

6. The period of the year during which the water may be used is 1st May to 30th September.

7. The area and description of the lands upon which the water may be used are 334 acres, comprising parts of Nicola Lake Indian Reserve, being Reserve No. 1 of the Upper Nicola Indians. The extent and location of the said lands are further shown in the said Exhibit "A."

8. The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1927.

9. Works for the diversion and the carriage of the water as set forth in the exhibit marked "B," which is hereto attached and made a part hereof, shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction shall be commenced or resumed on or before the 1st day of June, 1923.

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1927.

10. Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

11. The licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clause 1 hereof and complete information obtained respecting the requirements of all the lands watered therefrom, and the licensee shall surrender the licence for amendment when called upon to do so.

12. The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

MADE AND ENTERED this 1st day of December, 1922.

THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

By E.A. Cleveland, *Chairman,*

and J.S.T. Alexander, *Member.*

Board Order No. 3797.

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

EXHIBIT "B."

(Forming part of an Order of the Board numbered as noted at the foot of this sheet.)

The works which are required to be completed before the issue of a final licence are as follows:—

The clearing, stumping and levelling of the irrigable land to which the licence is appurtenant, and the works necessary for conducting the water thereto.

BOARD OF INVESTIGATION.

By E.A.Cleveland, *Chairman,*

and J.S.T.Alexander, *Member.*

Board Order No. 3797

Form 545. W.R.B.—[illegible]

6156

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 3808, a duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Douglas Lake Indian Reserve, No.3 of the Upper Nicola Indians.

...ied by Final Licence 10851

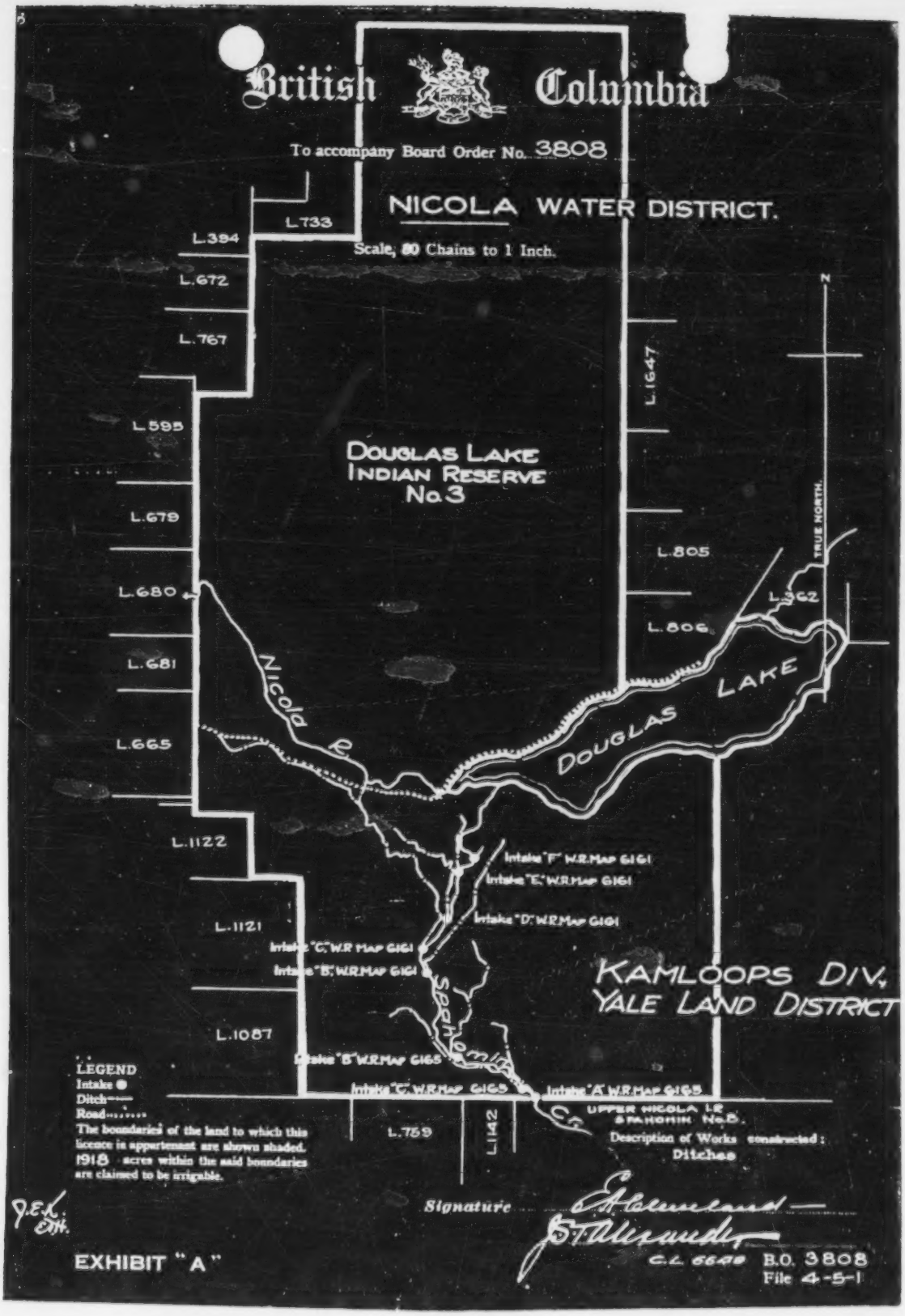
Made and entered this 1st day of December, 1922.

E. A. Cleveland

Comptroller of Water Rights.

No. 3649

Form No. 1006, W.R.B. (Licence in respect of Board Order)—1,300-12-21—5397.


British Columbia
To accompany Board Order No. 3808
NICOLA WATER DISTRICT.
Scale, 80 Chains to 1 Inch.
L.733
L.394
L.672
L.767
L.595
L.679
L.680
L.681
L.665
L.1122
L.1121
L.1087
L.759
L.1142
L.1647
L.805
L.806
L.362
N
TRUE NORTH.
DOUGLAS LAKE INDIAN RESERVE No.3
Nicola R.
DOUGLAS LAKE
Intake "F" W.R.MAP 6161
Intake "E" W.R.MAP 6161
Intake "D" W.R.MAP 6161
Intake "C" W.R MAP 6161
Intake "B" W.R.MAP 6161
Spahomin Cr.
Intake "B" W.R.MAP 6165
Intake "C" W.R.MAP 6165
Intake "A" W.R.MAP 6165
KAMLOOPS DIV.
YALE LAND DISTRICT
LEGEND
Intake ●
Ditch——
Road.....
The boundaries of the land to which this licence is appertenant are shown shaded.
1918 acres within the said boundaries are claimed to be irrigable.
UPPER NICOLA I.R. SPAHOMIN No.5.
Description of Works constructed:
Ditches
Signature
C.L. 6648 B.O. 3808
File 4-5-1
J.E.L. E.M.
EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA. | WATER RIGHTS BRANCH. | DEPARTMENT OF LANDS.

DETERMINATION AND ORDER

BY THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

In the Matter of the "Indian Water Claims Act" (Chapter 19 of the Statutes of British Columbia, 1921, Second Session), and

In the Matter of an Indian Water Claim respecting the diversion and use of water from

Spahomin Creek. File 4-5-1.

ON THE 11th day of May, 1922.

the above matter having come on for hearing in the presence of Mr. J.H. Ellis, K.C., of Counsel for the Department of Indian Affairs,

and after notice to all persons holding or claiming to hold water rights on said Spahomin Creek

and all and every the steps required by the Act to be taken having been taken by the Board; and the Board being fully advised in the premises, determines that the right of the Upper Nicola Indians to take water from Spahomin Creek

for use on Douglas Lake Indian Reserve, No.3 of the Upper Nicola Indians has been established.

AND THE BOARD DOTH ORDER the Comptroller of Water Rights to issue a Conditional Licence in respect of the said Indian Water Claim embodying the following terms and conditions:—

1. The source of the water-supply is Spahomin Creek, a tributary of Upper Nicola River.

2. The point or points of diversion from the stream or streams are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

3. The date from which the licence shall take precedence is 2nd day of May, 1889.

4. The purpose for which the water is to be used is irrigation and incidentally domestic use.

5. The maximum quantity of water which may be diverted for use upon the lands mentioned in clause 7 hereof when all of the said lands are under irrigation is, until lawfully altered, 3836 acre-feet per annum and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is two (2) acre-feet: Provided that of the said 3836 acre-feet there may be used 100,000 gallons of water a day throughout the whole year for domestic purposes.

W.R.B. 563—250-6-22—7963.

Board Order No.3808.

The Seal to be applied to and the signature of the Clerk to and the Chairman to be duly witnessed at the 30th day of September 1930 — Board of Investigation. B.C.

(Sgd) J.F. Ross. Chairman
(Sgd) A.E. Davis. Member
(Sgd) Wm. Sutherland. Member

6. The period of the year during which the water may be used is 1st May to 30th September.

7. The area and description of the lands upon which the water may be used are 1918 acres, comprising parts of Douglas Lake Indian Reserve, being Reserve No. 3 of the Upper Nicola Indians. The extent and location of the said lands are further shown in the said Exhibit "A."

8. The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1927.

9. Works for the diversion and the carriage of the water as set forth in the exhibit marked "B," which is hereto attached and made a part hereof, shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction shall be commenced or resumed on or before the 1st day of June, 1923.

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1927.

10. Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

11. The licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clause 1 hereof and complete information obtained respecting the requirements of all the lands watered therefrom, and the licensee shall surrender the licence for amendment when called upon to do so.

12. The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

MADE AND ENTERED this 1st day of December, 192

THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

By E. A. Cleveland, *Chairman,*

and J. S. T. Alexander, *Member.*

Board Order No.3808.

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

EXHIBIT "B."

(Forming part of an Order of the Board numbered as noted at the foot of this sheet.)

The works which are required to be completed before the issue of a final licence are as follows:—

The clearing, stumping and levelling of the irrigable land to which the licence is appurtenant, and the works necessary for conducting the water thereto.

BOARD OF INVESTIGATION.

By E. A. Cleveland, *Chairman,*

and J. S. T. Alexander, *Member.*

Board Order No. 3808

Form 305. W.R.B.—2,005-1-25—3325

6161-163

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 4491, a duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Douglas Lake Indian Reserve, No.3 of the Upper Nicola tribe or band of Indians.

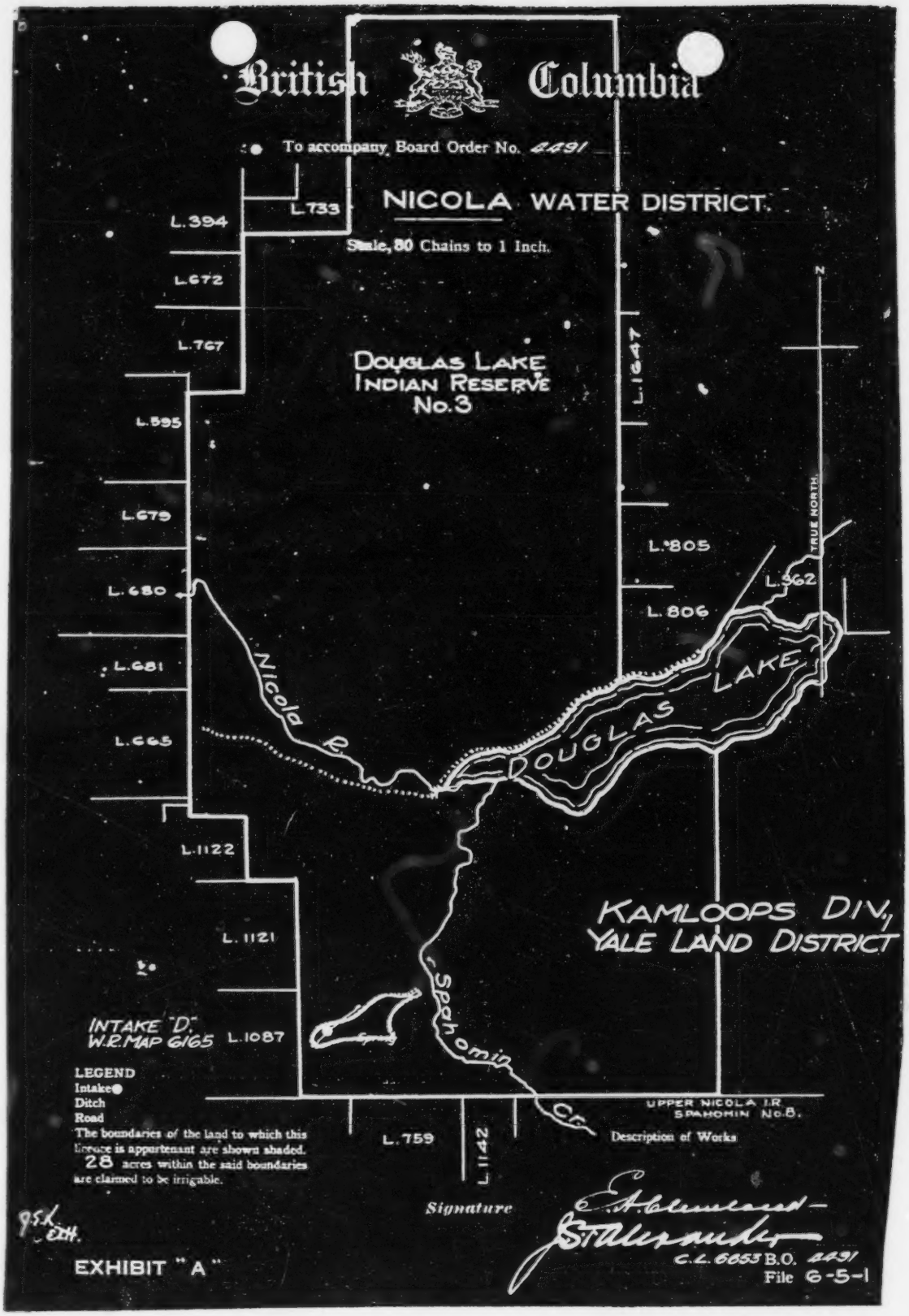
Conditional 10855
Final Licence

Made and entered this 1st day of December, 1922.

E. A. Cleveland
Comptroller of Water Rights.

No. 3353

Form No. 1004, W.R.B. (Licence in respect of Board Order)—1,500-12-21—3221.


British Columbia
To accompany Board Order No. 4491
NICOLA WATER DISTRICT.
Scale, 80 Chains to 1 Inch.
L.394
L.733
L.672
L.767
L.595
L.679
L.680
L.681
L.665
L.1122
L.1121
L.1087
L.1647
L.805
L.562
L.806
N
TRUE NORTH
DOUGLAS LAKE INDIAN RESERVE No.3
Nicola R.
DOUGLAS LAKE
KAMLOOPS DIV., YALE LAND DISTRICT
INTAKE "D" W.R.MAP 6165
Spahomin Cr.
UPPER NICOLA I.R. SPAHOMIN No.8.
L.759
L.1142
LEGEND
Intake
Ditch
Road
The boundaries of the land to which this licence is appurtenant are shown shaded.
28 acres within the said boundaries are claimed to be irrigable.
Description of Works
Signature
C.L. 6853 B.O. 4491
File 6-5-1
EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

DETERMINATION AND ORDER

BY THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

In the Matter of the "Indian Water Claims Act" (Chapter 19 of the Statutes of British Columbia, 1921, Second Session), and

In the Matter of an Indian Water Claim respecting the diversion and use of water from a spring on Douglas Lake Indian Reserve. File 6-5-1.

ON THE 11th day of May, 1922,

the above matter having come on for hearing in the presence of Mr. J. H. Ellis, K.C., of Counsel for the Department of Indian Affairs,

and after notice to all persons holding or claiming to hold water rights on said spring

and all and every the steps required by the Act to be taken having been taken by the Board; and the Board being fully advised in the premises, determines that the right of the Upper Nicola Indians to take water from the spring marked "D" on Water Rights Map 6165,

for use on Douglas Lake Indian Reserve, No.3 of the Upper Nicola tribe or band of Indians

has been established.

AND THE BOARD DOTH ORDER the Comptroller of Water Rights to issue a Conditional Licence in respect of the said Indian Water Claim embodying the following terms and conditions:—

1. The source of the water-supply is Spring "D", Water Rights Map 6165, a tributary of Spahomin Creek.

2. The point or points of diversion from the stream or streams are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

3. The date from which the licence shall take precedence is 2nd day of May, 1889.

4. The purpose for which the water is to be used is irrigation and incidentally domestic use.

5. The maximum quantity of water which may be diverted for use upon the lands mentioned in clause 7 hereof when all of the said lands are under irrigation is, until lawfully altered, 56 acre-feet per annum and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is two (2) acre-feet: Provided that of the said 56 acre-feet there may be used 500 gallons of water a day throughout the whole year for domestic purposes.

W.R.B. 563—250-6-22—7963.

Board Order No.4491.

6. The period of the year during which the water may be used is 1st May to 30th September.

7. The area and description of the lands upon which the water may be used are 28 acres, comprising parts of Douglas Lake Indian Reserve, being Reserve No. 3 of the Upper Nicola Indians. The extent and location of the said lands are further shown in the said Exhibit "A."

8. The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1927.

9. Works for the diversion and the carriage of the water as set forth in the exhibit marked "B," which is hereto attached and made a part hereof, shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction shall be commenced or resumed on or before the 1st day of June, 1923.

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1927.

10. Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

11. The licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clause 1 hereof and complete information obtained respecting the requirements of all the lands watered therefrom, and the licensee shall surrender the licence for amendment when called upon to do so.

12. The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

MADE AND ENTERED this 1st day of December, 1922.

THE BOARD OF INVESTIGATION UNDER THE "WATER ACT, 1914."

By E.A.Cleveland, *Chairman*,

and J.S.T.Alexander, *Member*.

Board Order No.4491.

The time for completion of works and the irrigation of the lands mentioned in clauses 8 and 9 hereof is hereby extended to the 30th day of September, 1928. - (Sd.) J.S. Lowe, Chairman, Board of Investigation. (Sd.) G. Sanderson Marker, Secretary.

The time for completion of works and the irrigation of the lands mentioned in clauses 8 and 9 hereof is hereby extended to the 30th day of September, 1929. - (Sd.) J.S. Lowe, Chairman, Board of Investigation. (Sd.) G. Sanderson Marker, Secretary.

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

EXHIBIT "B."

(Forming part of an Order of the Board numbered as noted at the foot of this sheet.)

The works which are required to be completed before the issue of a final licence are as follows:—

The clearing, stumping and levelling of the irrigable land to which the licence is appurtenant, and the works necessary for conducting the water thereto.

BOARD OF INVESTIGATION.

By E. A. Cleveland, *Chairman,*

and J. S. T. Alexander, *Member.*

Board Order No. 4491.

Form 503. W.R.B.—2,000-1-22—3082

6160+'65

PROVINCE OF BRITISH COLUMBIA. | WATER RIGHTS BRANCH. | DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE
(IRRIGATION)

Appurtenant to 17.5 acres of the Douglas Lake Indian Reserve No. 3 of the Upper Nicola Indians.

WHEREAS William C. Dallin, Indian Agent, whose post-office address is Kamloops, B.C. as owner or lawful occupant of the land hereinafter specified, has applied for a licence to take and use water in the manner hereinafter set out, and has taken all the preliminary steps required of such applicant under the "Water Act, 1914," prior to the issue of this licence, and is, under the said Act, entitled thereto:

Now, therefore, in pursuance of the said Act, this conditional licence is issued, granting the licensee hereunder the right to take and use water under the following terms and conditions:—

(1.) The source of the water-supply is Nicola River.

(2.) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(3.) The date from which this licence shall take precedence is 20th June, 1923.

Superseded by 10903 Final Licence

(4.) The purpose for which the water is to be used is irrigation and incidentally domestic use.

(5.) The maximum quantity of water which may be diverted for use upon the lands mentioned in clause (7) hereof when all of the said lands are under irrigation is, until lawfully altered 35 acre-feet per annum, and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is 2 acre-feet: Provided that of the said 35 acre-feet there may be used 500 gallons of water a day throughout the whole year for domestic purpose.

(6.) The period of the year during which the water may be used is 1st April to 30th September.

(7.) The area and description of the lands upon which the water may be used are 17.5 acres, comprising part of the Douglas Lake Indian Reserve No. 3 of the Upper Nicola Indians.

The extent and location of the said irrigable lands are further shown in the said exhibit "A."

License Number 7239

Form 1001, W.R.B. (Conditional Licence—Irrigation)—2,000-7-22—8007.

File No. 047917

(8.) The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1930.

(9.) Works for the diversion and the carriage of the water as set forth in the exhibit marked "B" which is hereto attached made a part hereof shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction has already been commenced.

~~shall be commenced on or before the day of~~, 19~~2~~

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1930.

(10.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(11.) This licence is supplementary to Licence No. for the diversion of acre-feet per annum from and Licence No. for the diversion of acre-feet per annum from but no more than acre-feet of water (exclusive of the quantity allowed for seepage and evaporation) may be diverted from all sources for use upon the lands described in clause 7 hereof.

(12.) This licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clauses (1) and (11) hereof and complete information obtained respecting the requirements of all the lands watered therefrom and the licensee shall surrender the licence for amendment when called upon to do so.

(13.) This licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

(14.)

Issued this 20th day of November, 1923

File No. 047917

E. H. Blewett

Comptroller of Water Rights

Licence Number 7239

Form 1601, W.R.B. (Conditional Licence—Irrigation) 2,000-1-22 -9867.

ORIGINAL

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

EXHIBIT "B."

(APPROVAL OF PLANS AND LIST OF WORKS TO BE CONSTRUCTED.)

The works which are accepted as necessary and suitable for the taking and (or) using of the water under the above-mentioned licence, and which are more fully set out in the plans and specifications filed in the office of the Comptroller of Water Rights numbered 327706 C

as altered, amended, or limited by supplemental plans and specifications numbered

or in letters or other documents referred to as

which plans and specifications as thus altered, amended, or limited are hereby approved, are as follows:—

Ditch.

File No. 047917

E. Helmeland

Comptroller of Water Rights.

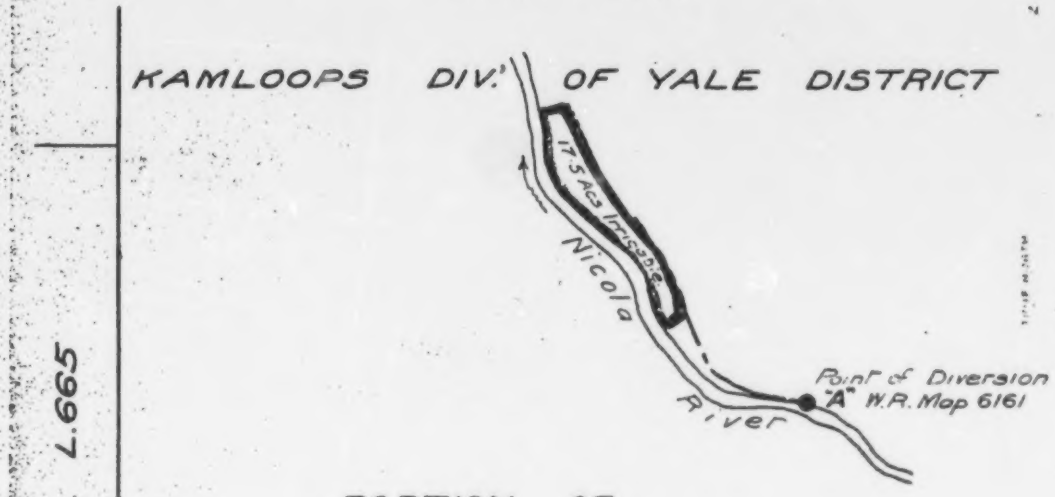
Form 1005. W.R.B. (Approval of Plans)—2,500-12-2111—(Forming part of Conditional Water Licence No. 7239).

6161

British Columbia.

To accompany Conditional Licence 7239

NICOLA ——— WATER DISTRICT



The Tracing for this Licence has been used for the Final Licence.

The boundaries of the land to which this licence is appurtenant are shown hatched A. C.H.

Signature E. Hellmuth

20 Nov. 1923

EXHIBIT "A"

C.L. 7239
File: 047917

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE
(IRRIGATION)

Appurtenant to 134 acres of the Upper Nicola Indian Reserve No. 8.

WHEREAS William C. Dallin, Indian Agent, whose post-office address is Kamloops, B.C. as owner or lawful occupant of the land hereinafter specified, has applied for a licence to take and use water in the manner hereinafter set out, and has taken all the preliminary steps required of such applicant under the "Water Act, 1914," prior to the issue of this licence, and is, under the said Act, entitled thereto:

Now, therefore, in pursuance of the said Act, this conditional licence is issued, granting the licensee hereunder the right to take and use water under the following terms and conditions:—

(1.) The source of the water-supply is Spahomin Creek.

(2.) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(3.) The date from which this licence shall take precedence is 20th June, 1923.

Revised by 10853

Final Licence

(4.) The purpose for which the water is to be used is irrigation and incidentally domestic use.

(5.) The maximum quantity of water which may be diverted for use upon the lands mentioned in clause (7) hereof when all of the said lands are under irrigation is, until lawfully altered 265 acre-feet per annum, and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is 2 acre-feet: Provided that of the said 265 acre-feet there may be used 1000 gallons of water a day throughout the whole year for domestic purpose.

(6.) The period of the year during which the water may be used is 1st April to 30th September.

(7.) The area and description of the lands upon which the water may be used are 134 acres, comprising part of the Upper Nicola Indian Reserve No.8.

The extent and location of the said irrigable lands are further shown in the said exhibit "A."

Form 1004, W.R.B. (Conditional Licence—Irrigation)—2,000-7-22—3960.

Licence Number 7245

File No. 047915

ORIGINAL

(8.) The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1930.

(9.) Works for the diversion and the carriage of the water as set forth in the exhibit marked "B" which is hereto attached made a part hereof shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction has already been commenced.

~~shall be commenced on or before the ~~ day of ~~, 19~~

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1930.

(10.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(11.) This licence is supplementary to Licence No. for the diversion of acre-feet per annum from and Licence No. for the diversion of acre-feet per annum from but no more than acre-feet of water (exclusive of the quantity allowed for seepage and evaporation) may be diverted from all sources for use upon the lands described in clause 7 hereof.

(12.) This licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clauses (1) and (11) hereof and complete information obtained respecting the requirements of all the lands watered therefrom and the licensee shall surrender the licence for amendment when called upon to do so.

(13.) This licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

(14.)

Issued this 20th day of November, 1929.
File No. 047915

E. H. Blewett
Comptroller of Water Rights.
Licence Number 7245

Form 1004, W.R.B. (Conditional Licence - Irrigation) 2,000-7-22 - 9865.

ORIGINAL

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

EXHIBIT "B."

(APPROVAL OF PLANS AND LIST OF WORKS TO BE CONSTRUCTED.)

The works which are accepted as necessary and suitable for the taking and (or) using of the water under the above-mentioned licence, and which are more fully set out in the plans and specifications filed in the office of the Comptroller of Water Rights numbered 32704 B

as altered, amended, or limited by supplemental plans and specifications numbered

or in letters or other documents referred to as

which plans and specifications as thus altered, amended, or limited are hereby approved, are as follows:—

Ditches.

File No. 047915

Map No. 6165
By JRW

E. A. Cleveland
Comptroller of Water Rights.

Form 1001, W.R.B. (Approval of Plans)—2,500-521-2111—(Forming part of Conditional Water Licence No. 7245).

ORIGINAL

British Columbia.

To accompany Conditional Licence No. 7245

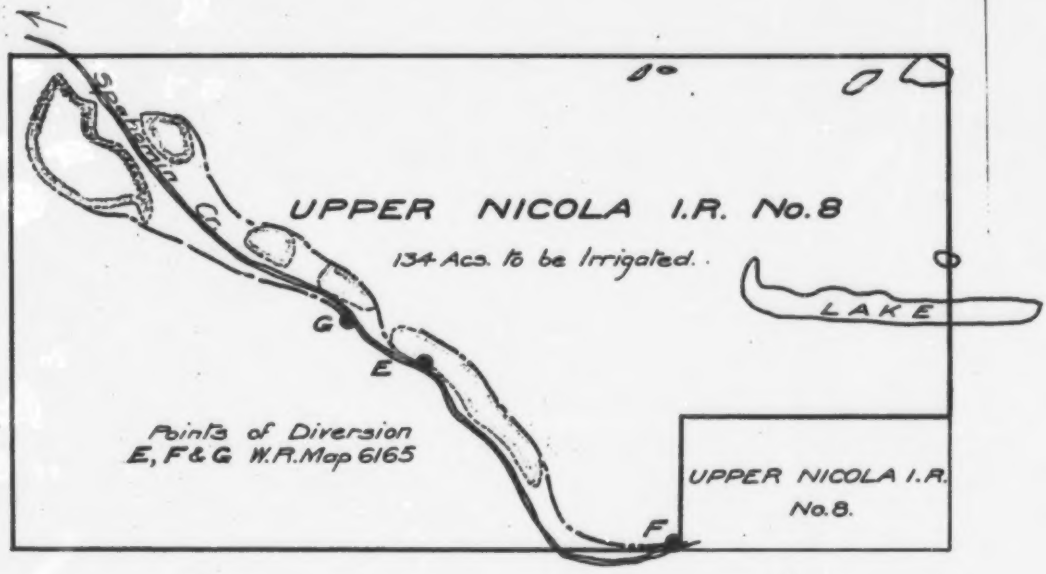
NICOLA ——— WATER DISTRICT

Scale, 40 Chains to 1 Inch.

N

TRUE NORTH.

KAMLOOPS DIV.' OF YALE DIST.'



The boundaries of the land to which this licence is appurtenant, are shown shaded.

Signature E. H. Clement

Date 20. Nov. 1923

EXHIBIT "A"

C.L. 7245.
File 047915

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE
(IRRIGATION)

Appurtenant to 30 acres of the Spahomin Creek Indian Reserve No. 4 of the Upper Nicola Indians.

WHEREAS William C. Dallin, Indian Agent, in trust for the Indians, whose post-office address is Kamloops, B.C. as owner or lawful occupant of the land hereinafter specified, has applied for a licence to take and use water in the manner hereinafter set out, and has taken all the preliminary steps required of such applicant under the "Water Act, 1914," prior to the issue of this licence, and is, under the said Act, entitled thereto:

Now, therefore, in pursuance of the said Act, this conditional licence is issued, granting the licensee hereunder the right to take and use water under the following terms and conditions:—

(1.) The source of the water-supply is Spahomin Creek, a tributary of Douglas Lake.

(2.) The point of diversion from the stream is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(3.) The date from which this licence shall take precedence is 20th June, 1923.

(4.) The purpose for which the water is to be used is irrigation and incidentally domestic use.

(5.) The maximum quantity of water which may be diverted for use upon the lands mentioned in clause (7) hereof when all of the said lands are under irrigation is, until lawfully altered 60 acre-feet per annum, and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is 2 acre-feet: Provided that of the said 60 acre-feet there may be used 500 gallons of water a day throughout the whole year for domestic purpose.

(6.) The period of the year during which the water may be used is 1st April to 30th September.

(7.) The area and description of the lands upon which the water may be used are 30 acres, comprising part of the Spahomin Creek Indian Reserve No.4 of the Upper Nicola Indians.

The extent and location of the said irrigable lands are further shown in the said exhibit "A."

Licence Number 1305

Form 1091, W.R.B. (Conditional Licence—Irrigation)—2,000-7-22—8063.

File No. 047916

(8.) The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1930.

(9.) Works for the diversion and the carriage of the water as set forth in the exhibit marked "B" which is hereto attached made a part hereof shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction ~~shall be commenced on or before the~~ has already been commenced. ~~day of , 192 .~~

The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1930.

(10.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(11.) This licence is supplementary to Licence No. 2 for the diversion of acre-feet per annum from and Licence No. for the diversion of acre-feet per annum from but no more than acre-feet of water (exclusive of the quantity allowed for seepage and evaporation) may be diverted from all sources for use upon the lands described in clause 7 hereof.

(12.) This licence is subject to readjustment when hydrometric surveys have been made of the sources of supply mentioned in clauses (1) and (11) hereof and complete information obtained respecting the requirements of all the lands watered therefrom and the licensee shall surrender the licence for amendment when called upon to do so.

(13.) This licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of said Act, including especially the provisions of section 117 thereof requiring the filing of proof of the completion of the said works and of making beneficial use of the water as authorized within the time herein prescribed.

(14.)

Issued this 30th day of November, 1925

File No. 047916

E. H. Cleveland

Comptroller of Water Rights

Licence Number 1305

Form 1004. W.R.B. (Conditional Licence—Irrigation)—2,000-7-22—8003.

ORIGINAL

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

EXHIBIT "B."

(APPROVAL OF PLANS AND LIST OF WORKS TO BE CONSTRUCTED.)

The works which are accepted as necessary and suitable for the taking and (or) using of the water under the above-mentioned licence, and which are more fully set out in the plans and specifications filed in the office of the Comptroller of Water Rights numbered 327705 B

as altered, amended, or limited by supplemental plans and specifications numbered

or in letters or other documents referred to as

which plans and specifications as thus altered, amended, or limited are hereby approved, are as follows:—

Ditch.

File No. 047916

E. A. Cleveland

Comptroller of Water Rights.

Form 1005. W.R.B. (Approval of Plans)—2,500-521-2131—(Forming part of Conditional Water Licence No. 7305).

ORIGINAL

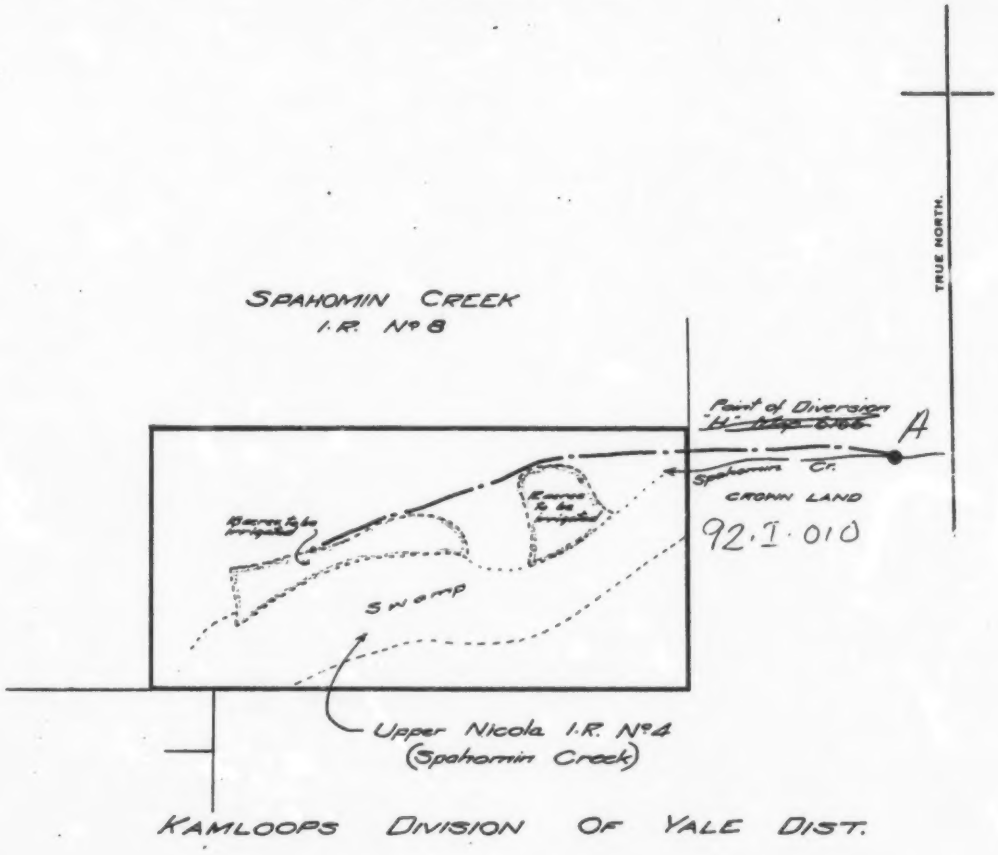
9-4

British Columbia.

accompany Conditional Licence No. 7305 Precinct.

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



The boundaries of the land to which this Licence is appurtenant are shown shaded.

Signature E. A. Cleveland

Date 30th Nov. 1923

EXHIBIT "A"

C.L. 7305
File 047910

WATER LICENCE DISPOSITION RECORD

CONDITIONAL/~~FINAL~~ WATER LICENCE NO. 7305

Has Been Recorded As:

_____ ABANDONED

_____ CANCELLED

_____ SUPERCEDED BY: _____

_____

_____

OR

Old Map No. 6165 Old POD: H ___ ___ ___

New Map No. ~~92-I-010~~ 92-I-010 New POD: A ___ ___ ___

Old Map No. _____ Old POD: ___ ___ ___ ___

New Map No. _____ New POD: ___ ___ ___ ___

Old Map No. _____ Old POD: ___ ___ ___ ___

New Map No. _____ New POD: ___ ___ ___ ___

Notation by: GB

Date: 89-06-22

W.R.B. 1002—SM-640-9758

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

Director of Indian Affairs, of Ottawa, is

hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Nicola River, tributary of Thompson River.

(b.) The point of diversion is located as shown on the attached plan.

(c.) The date from which this licence shall have precedence is 21st June, 1940.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water which may be diverted is 17.5 acre feet per annum and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f.) The period of the year during which the water may be used is 1st April to 30th September.

(g.) The land upon which the water is to be used ~~and to which this licence is appurtenant is~~ is 7 acres of the portion of Douglas Lake Indian Reserve No. 3, situated east of District Lot 681, Kamloops Division of Yale District,

(h.) The works for the diversion and carriage of the water are ditches as shown on the attached plan.

(i.) the construction of which shall be commenced on or before the 30th day of September, 1940, and shall be completed and the water beneficially used on or before the 31st day of December, 1942.

Superseded by 11811
Final Licence

ENTERED ON
Map No. 6161
By D.F.

E. Davis
Comptroller of Water Rights.

File No. 0140063 Date issued August 15, 1940. Licence No. 14557

British Columbia

To accompany Conditional Licence No. 14557

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.

Point of Diversion
N.R. Map 6161

N

TRUE NORTH

L. 681
Kam

L. 665
Kam

PART OF DOUGLAS LAKE
I. R. NO. 3
7 acs. to be irrigated

L. 1122

LEGEND

Point of Diversion :O:

Ditch — — — —

The boundaries of the land to which this license is appurtenant are shown thus: ———

Signature E. Davis

Date 15th Aug. 1940.

C.L. 14557

File 0140063

EXHIBIT "A"

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Superintendent General of Indian Affairs (Nicola Indian Agency) of **Ottawa, Ontario.**

is/are hereby authorized to **divert and use** water as follows:—

(*a*) The source(s) of the water-supply is/are **Nicola Lake.**

(*b*) The point(s) of **diversion** is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is **23rd December, 1966.**

(*d*) The purpose for which the water is to be used is **waterworks.**

(*e*) The maximum quantity of water which may be **diverted is 10,000 gallons a day,**

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be **used is the whole year,**

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is **Nicola Lake Indian Reserve No. 1, Kamloops Division of Yale District, except Kamloops-Merritt Highway (Plan M279).**

(*h*) The works authorized to be constructed are **pump, infiltration gallery, storage tank and pipelines,**

and they shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works **shall be commenced on or before the 31st day of August, 1968, and shall be completed and the water beneficially used on or before the 31st day of December, 1970.**

H. D. DeBeck,
Comptroller of Water Rights.

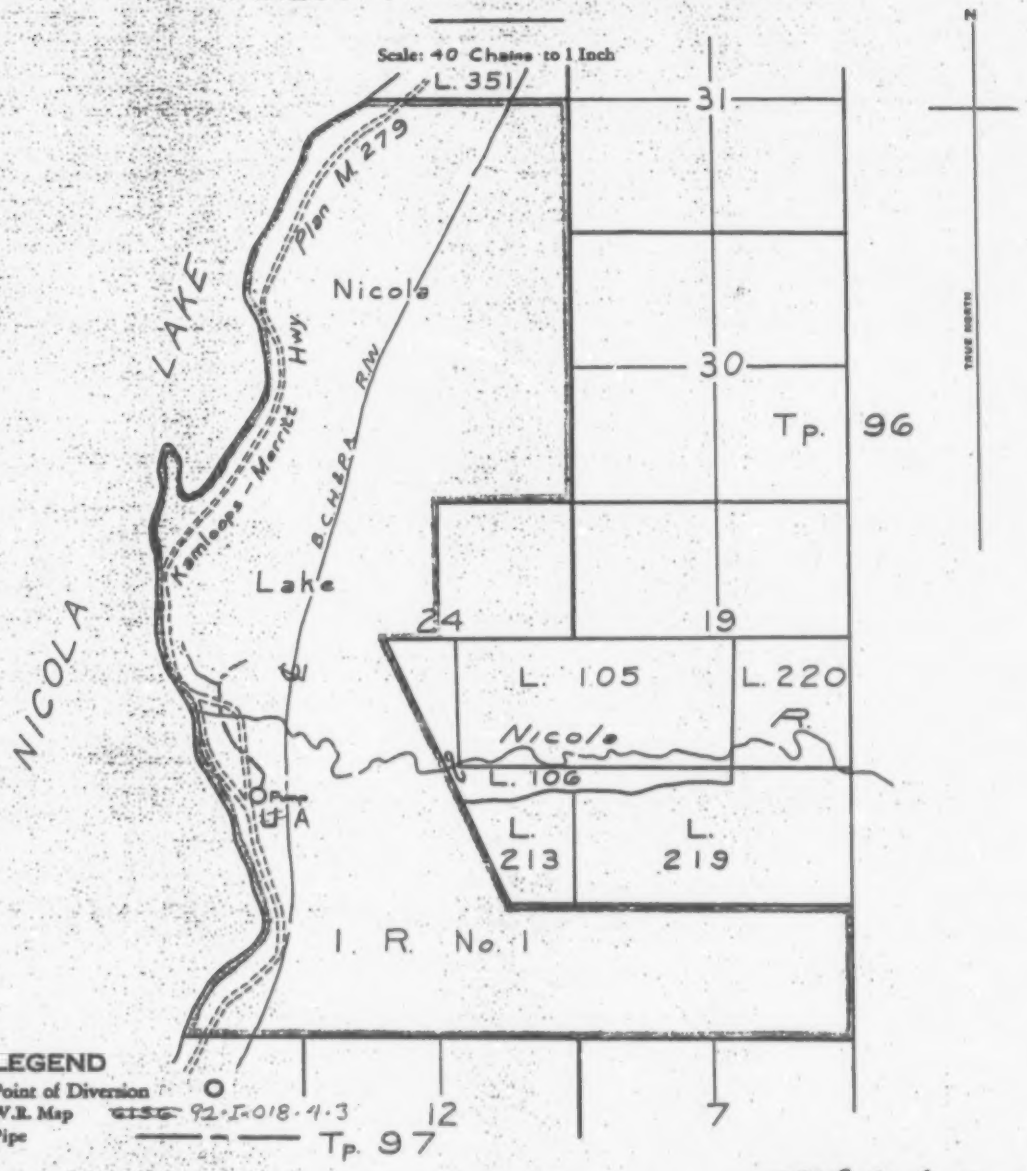
File No. 0270893 Date issued: **1 February 1968** Conditional Licence No. **32982**

615 FMR

British Columbia

NICOLA WATER DISTRICT

KAMLOOPS DIVISION OF YALE DISTRICT



LEGEND

Point of Diversion O

W.R. Map ~~GISG~~ 92-I-018-4-3

Pipe

The boundaries of the land to which this licence is appurtenant are shown thus: ———

Signature

Date 1st, Feb. 1968

CL 32982

File 0270893

EXHIBIT "A" 6

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Superintendent General of Indian Affairs (Nicola Agency) of Ottawa, Ontario

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Spahomin Creek.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 23rd February, 1967.

(d) The purpose for which the water is to be used is irrigation.

(e) The maximum quantity of water which may be diverted is 1,500 acre feet per annum,

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Indian Reserve No.3 Douglas Lake and Indian Reserve No.8 Spahomin Creek, Kamloops Division of Yale District, of which 500 acres may be irrigated.

(h) The works authorized to be constructed are diversion structure, pipe and ditch,

and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be commenced on or before the 15th day of June, 1970, and shall be completed and the water beneficially used on or before the 31st day of December, 1972.

ENTERED ON
Map No. .....
By .....

H. D. DeBeck,
Comptroller of Water Rights.

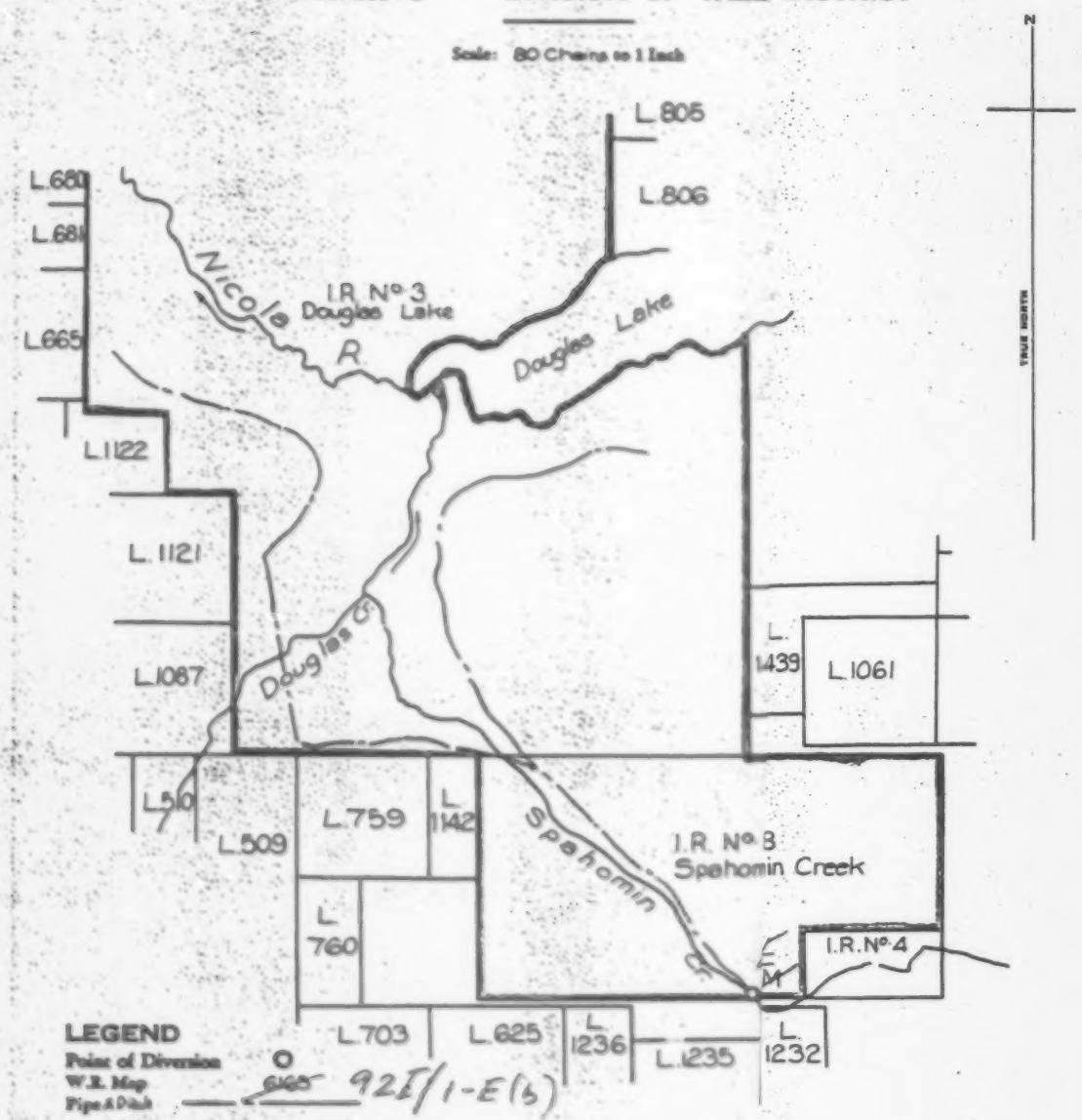
File No. 0273081 Date issued: 1 December, 1969 Conditional Licence No. 35029

British Columbia

NICOLA WATER DISTRICT

KAMLOOPS DIVISION OF YALE DISTRICT

Scale: 80 Chains to 1 Inch



LEGEND

Point of Diversion O

W.R. Map 92I/1-E(6)

Pipe & Ditch

The boundaries of the land to which this licence is appurtenant are shown thus

Signature

Date 1 Dec. 1969

EXHIBIT "A"

For Storage see C.L. 35030

C.L. 35029

File 0273081

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Superintendent General of Indian Affairs (Nicola Agency) of Ottawa, Ontario

is/are hereby authorized to store water as follows:—

(*a*) The source(s) of the water-supply is/are Spahomin Creek and the reservoir is the creek.

(*b*) The point(s) of storage is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 13th February, 1969.

(*d*) The purpose for which the water is to be used is as set out in Conditional Water Licence No. 35029.

(*e*) The maximum quantity of water which may be stored is 1,500 acre feet per annum,

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be stored is 1st October to 30th June.

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is as set out in Conditional Water Licence No. 35029.

(*h*) The works authorized to be constructed are dam,

and they shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works shall be commenced on or before the 15th day of June, 1970, and shall be completed and the water beneficially used on or before the 31st day of December, 1972.

(j) Construction of the dam authorized under clause (h) hereof, shall not be commenced until plans of same have been submitted to and have been approved by the Engineer for the Nicola Water District.

ENTERED ON
Map No. .....
By .....

H. D. DeBeck,
Comptroller of Water Rights.

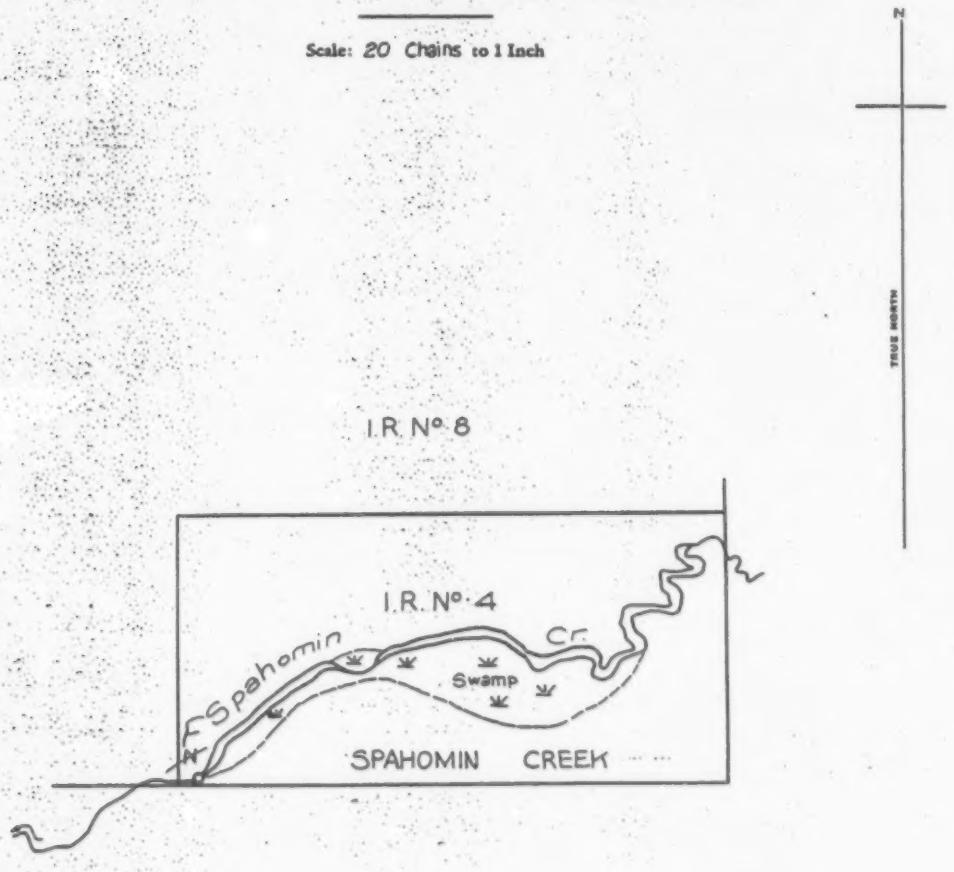
File No. 0285198 Date issued: 1 December, 1969 Conditional Licence No. 35030

British Columbia

NICOLA WATER DISTRICT

KAMLOOPS DIVISION OF YALE DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Dem. of Diversion O

W.R. Map 92I/1-E(b)

The boundaries of the land to which this [illegible] apply are shown thus: [illegible]

Signature [signature]

Date 1 Dec. 1969

EXHIBIT "A"

For Diversion see C.L. 35029

C.L. 35030
File 0285198

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs (Kamloops Agency) of Ottawa, Ontario.

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Chapperon Lake.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 17th April, 1973.

(d) The purpose for which the water is to be used is irrigation.

(e) The maximum quantity of water which may be diverted is 440 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Chapperon Lake Indian Reserve No.5, Kamloops Division of Yale District, of which 220 acres may be irrigated.

(h) The works authorized to be constructed are diversion structures, pumps, pipe and sprinkler system, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be commenced on or before the 30th day of September, 1975, and shall be completed and the water beneficially used on or before the 31st day of December, 1978.

H.D. DeBeck,
Comptroller of Water Rights.

File No. 0316758 Date issued: 1st April, 1975 Conditional Licence No. 43856

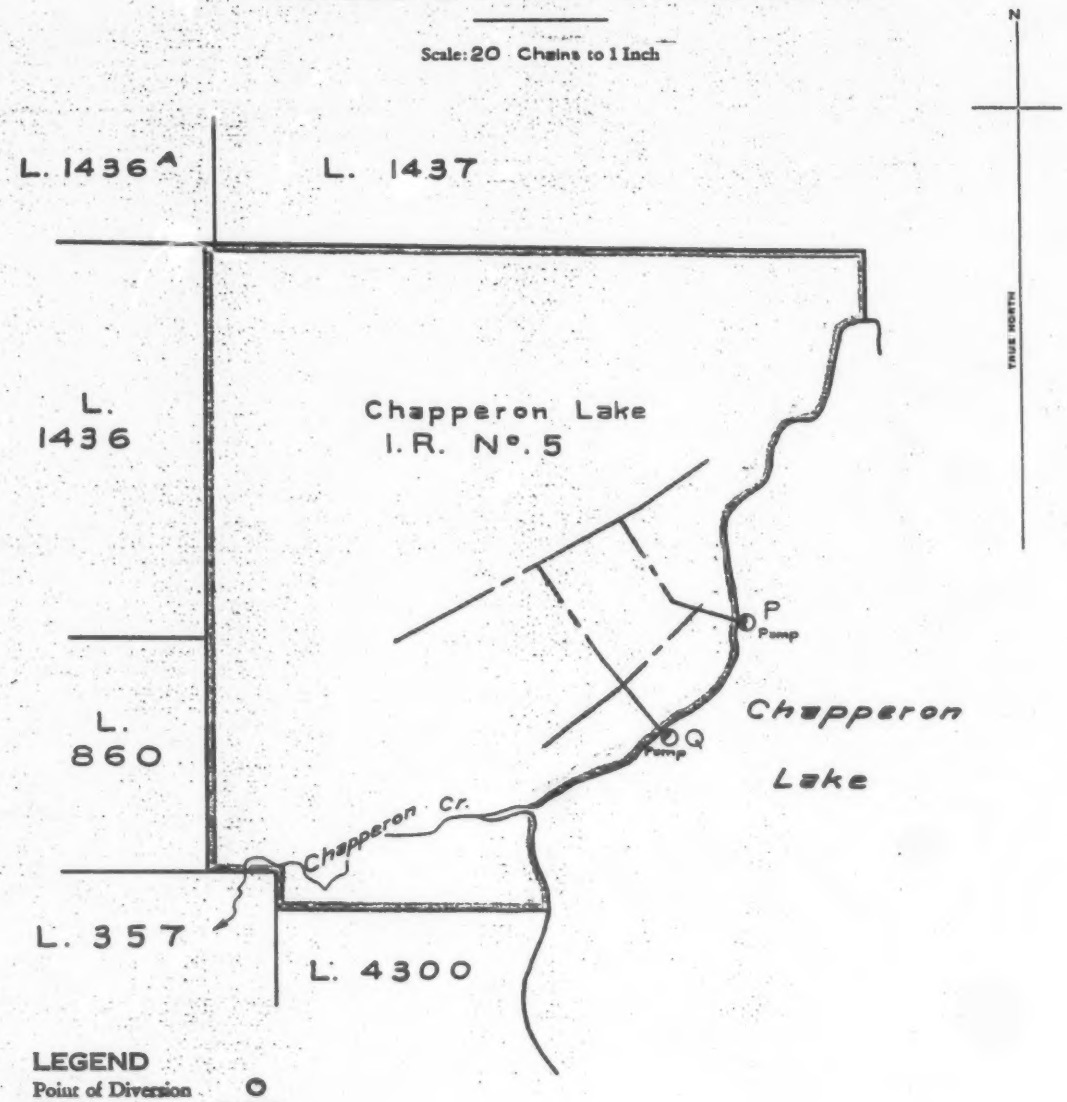
ENTERED ON
Map No. 615
By

British Columbia

NICOLA WATER DISTRICT

KAMLOOPS DIVISION OF YALE DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Point of Diversion O
W.R. Map 6158
Pipe
Right of Way [redacted]

The boundaries of the land to which this licence is appurtenant are shown thus: [redacted]

Signature [signature]

Date 1st Apr. 1975

EXHIBIT "A"

For Storage See C.L. 43857

Upper Nicola Precinct

C.L. 43856
File 0316758
R/W Permit No. 9840

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs (Kamloops Agency) of Ottawa, Ontario.

is/are hereby authorized to store water as follows:—

(*a*) The source(s) of the water-supply is/are Chapperon Lake and the reservoir is the Lake.

(*b*) The point(s) of storage is/are located as shown on the attached plan.

(*c*) The date from which this licence shall have precedence is 17th April, 1973.

(*d*) The purpose for which the water is to be used is as set out in Conditional Water Licence No. 43856.

(*e*) The maximum quantity of water which may be stored is 440 acre feet per annum, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(*f*) The period of the year during which the water may be stored 1st October to 15th June.

(*g*) The land upon which the water is to be used and to which this licence is appurtenant is as set out in Conditional Water Licence No. 43856.

(*h*) The works authorized to be constructed are dam, which shall be located approximately as shown on the attached plan.

(*i*) The construction of the said works has been completed and the water shall be beneficially used on or before the 31st day of December, 1978.

H.D. DeBeck,
Comptroller of Water Rights.

File No. 0316758 Date issued: 1st April, 1975 Conditional Licence No. 43857

ENTERED ON
Map No. 6158
By

British Columbia

NICOLA WATER DISTRICT
KAMLOOPS DIVISION OF YALE DISTRICT

Scale: 20 Chains to 1 Inch

Signature

Date 1st Apr. 1975

EXHIBIT "A"

For Diversion See C.L. 43856

CL 43857
File 0316758

Upper Nicola Precinct

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Department of Indian Affairs and Northern Development, Box 1000, 800 Burrard Street, Vancouver, British Columbia V6Z 2J3

is hereby authorized to divert and use water as follows:

(a) The source of the water supply is Nicola River.

(b) The point of diversion is located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 20th June, 1923.

(d) The purpose for which this licence is issued is irrigation.

(e) The maximum quantity of water which may be diverted is 33 acre-feet per annum.

(f) The period of the year during which the water may be used is 1st April to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Indian Reserve No. 3, Douglas Lake, of which 17.5 acres may be irrigated.

(h) The works authorized to be constructed are diversion structure, pump, pipe and sprinkler system, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be completed and the water beneficially used on or before the 31st day of December, 1989.

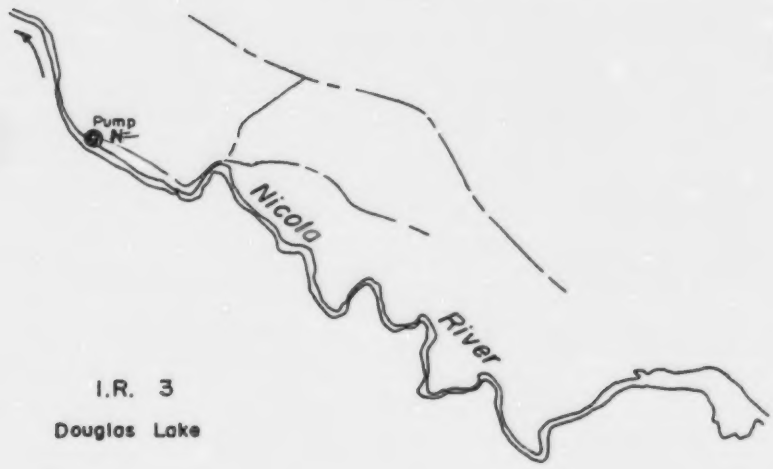
(j) This licence is issued in substitution of Final Water Licence 10903 under Section 15 of the Water Act.

AMENDED 30 / 88

A.D. Zackodnik
Regional Water Manager

File No. 0047917 Date issued: August 7, 1987 Conditional Licence 65616

Province of British Columbia



L.
1121

WATER DISTRICT : NICOLA
PRECINCT : UPPER NICOLA
LAND DISTRICT : KAMLOOPS DIVISION OF YALE

LEGEND

Scale : 20 chains to 1 inch
Point of Diversion : ●
Map Number : WR ~~8167~~ 92I/1 W
Pipe : — — —

Signature [signature]
Date August 7, 1987

C.L. 65616 for F.L. 10903
File 0047917

The boundaries of the land to which this licence is appurtenant are I. R. 3 (Douglas Lake)

P2

ORDER

WATER ACT

SECTION 15

File No. 0047917

In the matter of Conditional Water Licence 65616, which authorizes the diversion of water from Nicola River for irrigation purpose.

Having determined that the quantity of water was erroneously stated, and being satisfied that no persons rights will be injuriously affected, I hereby amend clause (e) of said licence to read as follows:

(e) The maximum quantity of water which may be diverted is 35 acre-feet per annum.

Dated at Kamloops, B.C., this 20th day of January, 1988.

A.D. Zackodnik, P.Eng.
Regional Water Manager
Southern Interior Region

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Upper Nicola Indian Band of P.O. Box 37, Merritt, B.C. V0K 2B0

is hereby authorized to divert and use water as follows:

(a) The stream on which the rights are granted is Spahomin Creek, with a diversion of water authorized from Douglas Lake.

(b) The reference point of Spahomin Creek and the point of diversion on Douglas Lake are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 2nd May, 1889.

(d) The purpose for which this licence is issued is industrial (institutions).

(e) The maximum quantity of water which may be diverted is 20,000 gallons a day, provided that the maximum rate at which water may be diverted from Douglas Lake at any time shall not exceed the available rate of flow below point of reference 'B' (W.R. Map 921.019.2.3) on Spahomin Creek at that time.

(f) The period of the year during which the water may be used is the whole year.

(g) This licence is appurtenant to the Spahomin School Project of the licensee within Upper Nicola Indian Reserve No. 3 (Douglas Lake).

(h) The authorized works are diversion structure, pump and pipe, located approximately as shown on the attached plan.

(i) The construction of the said works shall be completed and the water beneficially used prior to the 31st day of December, 1991. Thereafter, the licensee shall continue to make beneficial use of the water in the manner authorized herein.

(j) This licence is issued in substitution of Final Water Licence 10854, in part, under Section 15 of the Water Act.

A.D. Zackodnik, P. Eng.
Regional Water Manager

File: 0241024 Date Issued: AUG 21 1989 Conditional Licence: 67154

Province of British Columbia

WATER DISTRICT : NICOLA
PRECINCT : UPPER NICOLA
LAND DISTRICT : KAMLOOPS DIVISION OF YALE

LEGEND

Scale : 1:10,000
Point of Diversion : ●
Map Number : WR92+023-2-3
Pipe : — — —
Permit over Crown Land: [redacted]

Signature [signature]
Date AUG 21 1989

C.L. 67154 for F.L. 10854 in part
File 0241024
P.C.L. 17460

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The Superintendent-General of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Quilchena creek,

a tributary of Nicola lake.

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 2nd May, 1889.

(d.) The purpose for which the water is to be used is irrigation and domestic.

(e.) The maximum quantity of water which may be diverted from the stream is 75 acre feet per annum, of which quantity 500 gallons a day may be used for domestic purpose.

(f.) The period of the year during which the water may be used is for irrigation is 1st May to 30th September, and for domestic use is throughout the year.

(g.) The land upon which the water may be used is 30 acres of Quilchena Indian Reserve No. 2 of the Upper Nicola Indians.

as shown in the said Exhibit "A."

(h.) The works for the diversion and the carriage of the water consist of ditches.

(i.) This licence is issued in substitution of Conditional Water Licence No. 6647.

Issued this 20th day of November, 1934.

J. Macdonald

Comptroller of Water Rights.

File No. 13-5-1.

Licence No. 9005

W.R.B. 2—1M-434-7094

ORIGINAL

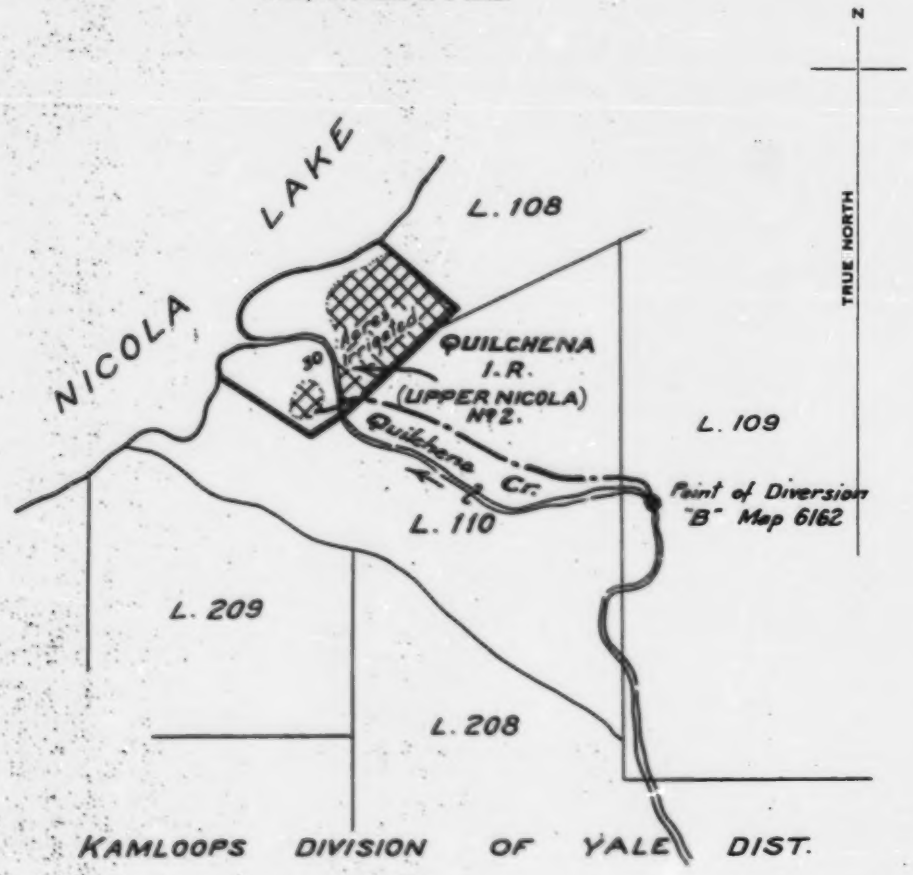
British Columbia.

8/

To accompany Final Licence No. 9005

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



Signature [signature]

Date 20th May 1934.

R.L. (9005) for C.L. 6647

File 13-5-1

EXHIBIT "A"

W.R.—2M-437-4337

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Nicola river,

a tributary of

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 2nd May, 1889.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water which may be diverted from the stream is 475.5 acre feet per annum.

(f.) The period of the year during which the water may be used is 1st May to 30th September.

(g.) The land upon which the water may be used is 190.2 acres of Nicola Lake Indian Reserve No. 1,

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of ditches.

(i.) This licence is issued in substitution of Conditional Water Licence No. 6648.

E. Davis.

Comptroller of Water Rights.

ENTERED ON
Map No.
By:

File No. 11-5-1

Date issued December 15, 1939. Licence No. 10822

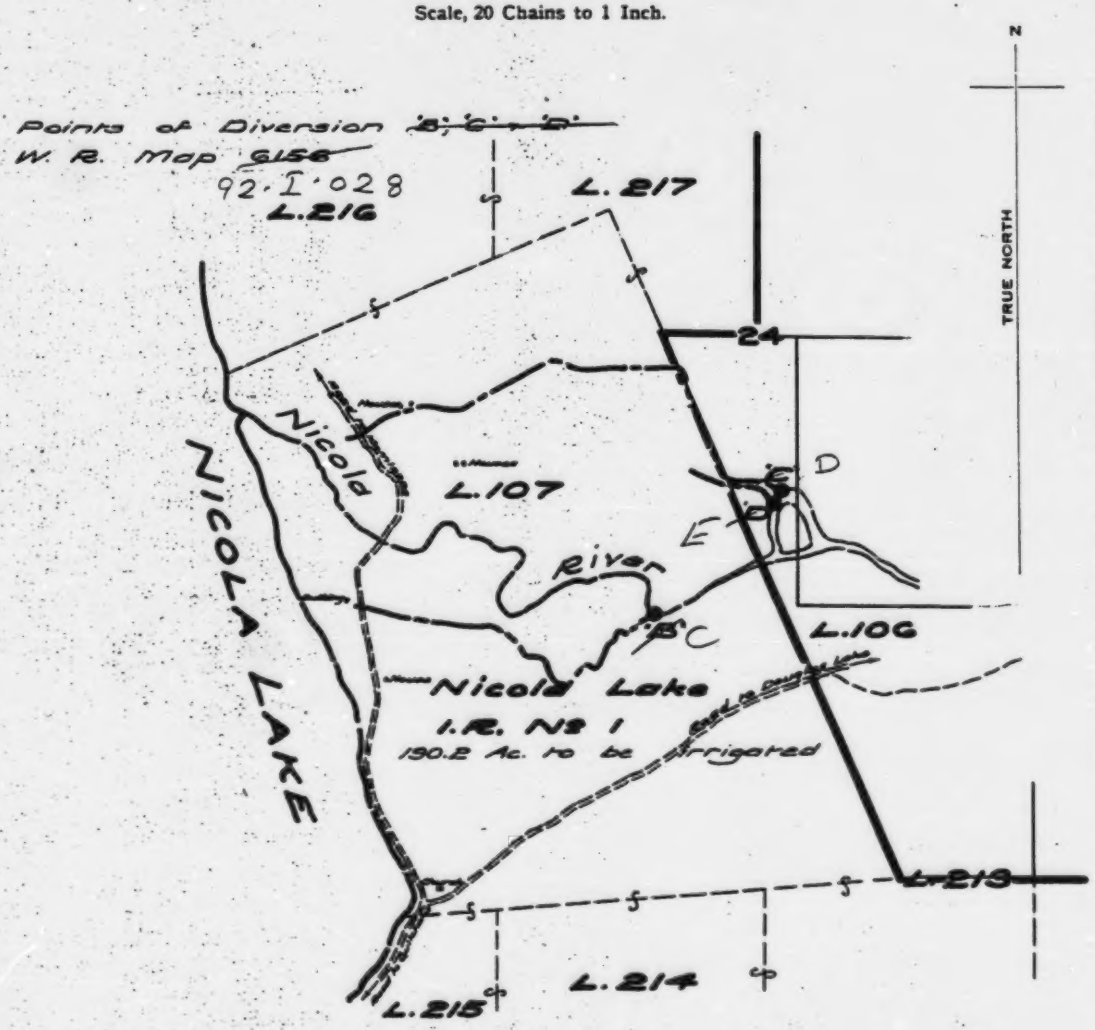
8

British Columbia.

To accompany { Final Licence 10822 for / Conditional Licence No. 6648 }

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



KAMLOOPS DIV. OF YALE DIST.

Signature E. Davis

Date 15th Dec., 1939

F.I. (10822) for C.L. 6648

File 11-5-1

EXHIBIT "A"

WATER LICENCE DISPOSITION RECORD

Conditional/Final Water Licence No. FL 10822

Has Been Recorded As:

_____ ABANDONED

_____ CANCELLED

_____ SUPERCEDED BY: _____

_____

_____

OR

___/ Now located on NEW MAP NO. 92·I·028

Formerly located on OLD MAP NO. G156

Old POD's B C D _____ _____

New POD's C D E _____ _____

Notation by: DCB

Date: 89.05

IMPORTANT
PLEASE SEND
YOUR
LICENCE

W.R.B. 2—2M-4-37-4227

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is **Spahomin Creek**

a tributary of **Douglas Lake.**

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is **20th June, 1923.**

(d.) The purpose for which the water is to be used is **irrigation.**

(e.) The maximum quantity of water which may be diverted from the stream is **217 acre feet per annum.**

(f.) The period of the year during which the water may be used is **1st April to 30th September**

(g.) The land upon which the water may be used is **108.5 acres within the Upper Nicola Indian Reserve No. 8 (Spahomin Creek)**

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of **ditches.**

(i.) This licence is issued in substitution of Conditional Water Licence No. **7245.**

E. Davis

Comptroller of Water Rights.

ENTERED ON
Map ... 0165 ...
By ... D.S. ...

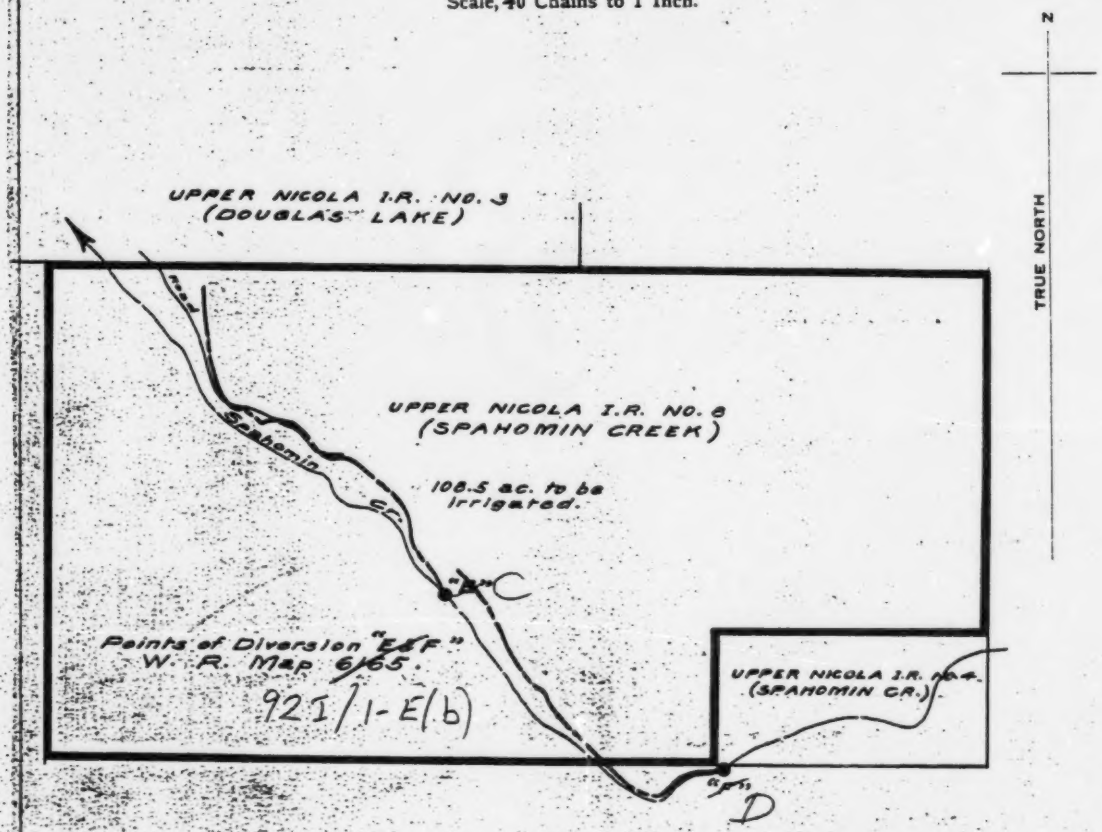
File No. 047915 Date issued January 15, 1940. Licence No. 10853

British Columbia.

To accompany { Final Licence No. 10853 for
Conditional Licence No. 7245

NICOLA WATER DISTRICT.

Scale, 40 Chains to 1 Inch.



KAMLOOPS DIVISION OF
YALE LAND DIST.

-LEGEND-
Points of diversion ●
Ditches ———

Signature E. Davis

Date 15th Jan., 1940.

F.L. (10853) for C.L. 7245

File 047915

EXHIBIT "A"

W.R.B. 2—2M-427-4287

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(*a.*) The source of the water-supply is **Spahomin Creek**

a tributary of **Douglas Lake.**

(*b.*) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(*c.*) The date from which this licence shall have precedence is **2nd May, 1889.**

(*d.*) The purpose for which the water is to be used is **irrigation and domestic.**

(*e.*) The maximum quantity of water which may be diverted from the stream is **2586.2 acre feet per annum and in addition 20,000 gallons a day may be used for domestic purpose.**

(*f.*) The period of the year during which the water may be used is **for irrigation is 1st May to 30th September and for domestic use the whole year.**

(*g.*) The land upon which the water may be used is **1293.1 acres within the Upper Nicola Indian Reserve No. 3 (Douglas Lake)**

as shown in the said Exhibit "A"

(*h.*) The works for the diversion and the carriage of the water consists of **diversion dams, ditches and flumes.**

(*i.*) This licence is issued in substitution of Conditional Water Licence No. **6649.**

Superseded by
CL 6715 / 4 cu. 67155

E. Davis

Comptroller of Water Rights.

ENTERED ON
Map No. 82G/2 & 82J/15
By

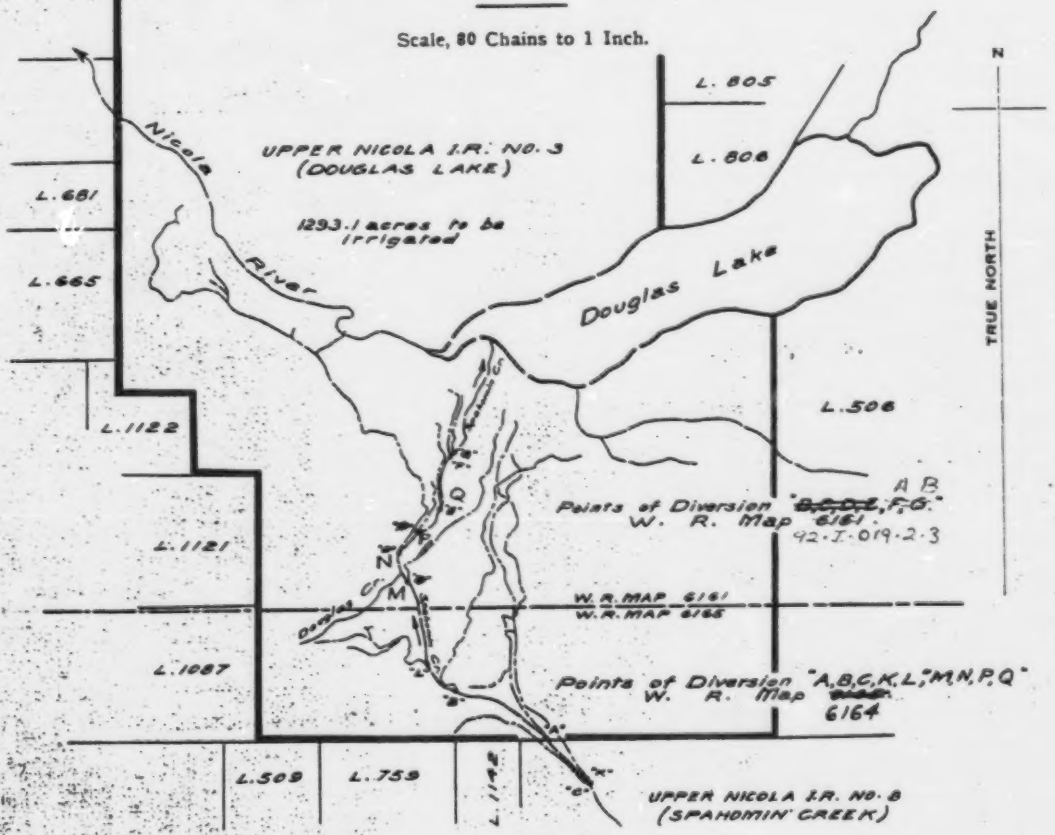
File No. 4-5-1 Date issued January 15, 1940. Licence No. 10854

British Columbia.

To accompany { Final Licence No. 10854 for / Conditional Licence No. 6649 }

NICOLA WATER DISTRICT.

Scale, 80 Chains to 1 Inch.



KAMLOOPS DIVISION OF
YALE LAND DISTRICT.

-LEGEND-

Points of diversion ●

Ditches & flumes ———

The boundaries of the land to which this licence is appurtenant are shown shaded.

Signature E. Davis

Date 15th Jan., 1940.

F.L. 10854 for C.L. ~~6649~~

File 4-5-1

EXHIBIT "A"

WATER LICENCE DISPOSITION RECORD

FWL WATER LICENCE NO. 10854

HAS BEEN

____ RECORDED AS ABANDONED

____ CANCELLED

✓ SUPERCEDED BY CWL 67154

Notation by: KB

Date: September 1/89

WATER LICENCE DISPOSITION RECORD

FWL WATER LICENCE NO. 10854

HAS BEEN

____ RECORDED AS ABANDONED

____ CANCELLED

V SUPERCEDED BY FWL 67155

Notation by: CB

Date: Sept 21/89

W.R.B 4-427-6827

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Douglas Creek

a tributary of Spahomin Creek.

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 2nd May, 1889.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water which may be diverted from the stream is 20 acre feet per annum.

(f.) The period of the year during which the water may be used is 1st May to 30th September.

(g.) The land upon which the water may be used is 10 acres within the Upper Nicola Indian Reserve No. 3 (Douglas Lake)

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of ditches.

(i.) This licence is issued in substitution of Conditional Water Licence No. 6655.

E. Davis

Comptroller of Water Rights.

ENTERED ON
Map No.
By

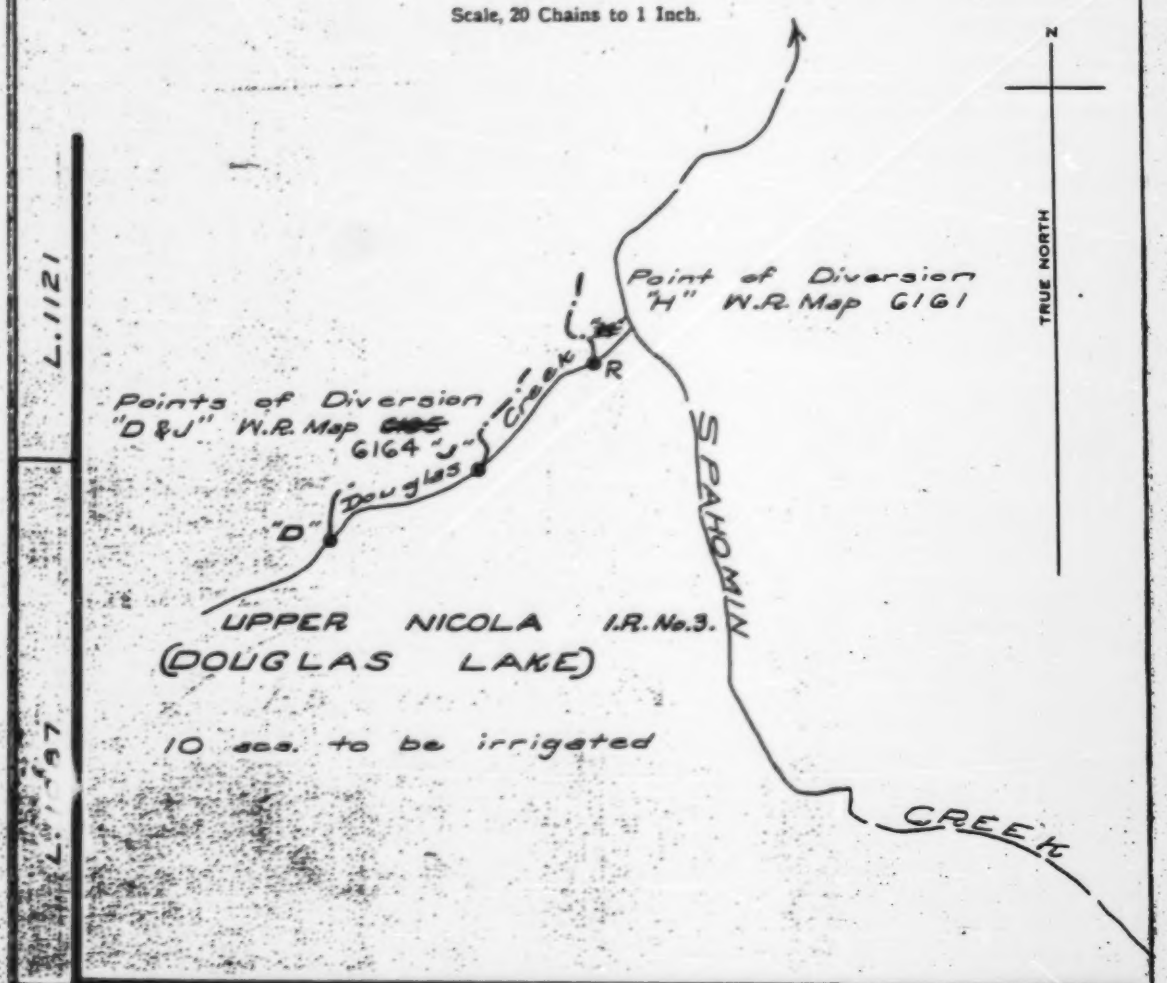
File No. 6-5-1 Date issued January 15, 1940. Licence No. 10855

British Columbia.

To accompany { Final Licence No. 10855 for Conditional Licence No. 6653

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



-LEGEND-
Points of Diversion ●
Ditches ———

Signature E. Davis

Date 15th Jan., 1940.

F. L. (10855) for C.L. 6653

File 6-5-1

EXHIBIT "A"

W.R.B. 187-4837

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Nicola River

a tributary of Thompson River.

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 20th June, 1923.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water which may be diverted from the stream is 35 acre feet per annum.

(f.) The period of the year during which the water may be used is 1st April to 30th September.

(g.) The land upon which the water may be used is 17.5 acres of the portion of Indian Reserve No. 3, Douglas Lake,

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of ditch.

(i.) This licence is issued in substitution of Conditional Water Licence No. 7239.

E. Davis

Comptroller of Water Rights.

ENTERED ON
Map No. 6161
By D.D.

SUPERCEDED BY
LICENCE NO. C.65616

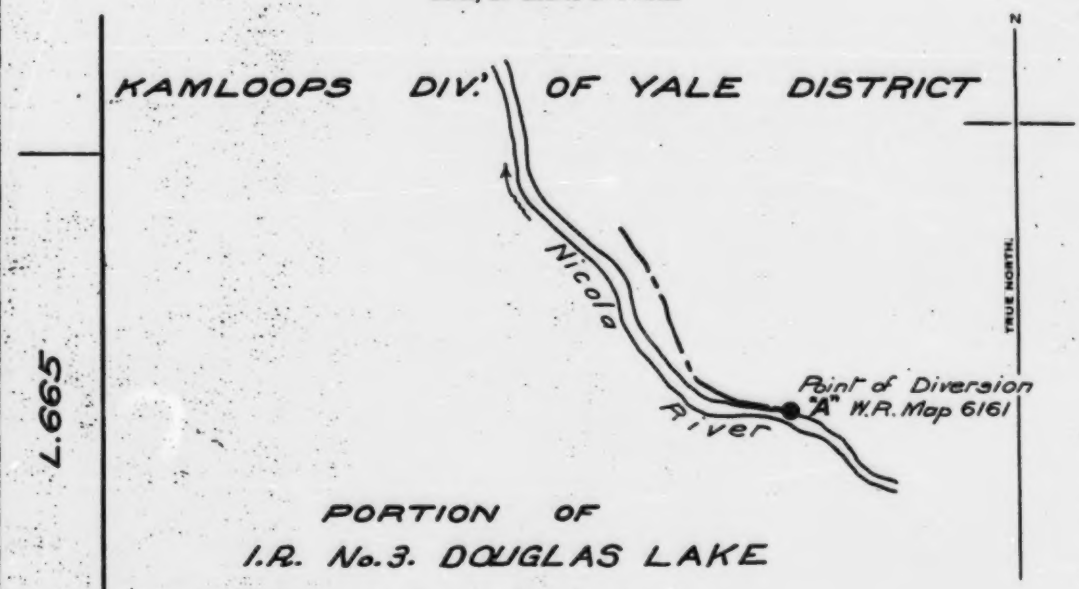
File No. 047917 Date issued March 15, 1940. Licence No. 10903

British Columbia.

To accompany { Final Licence No. 10903 for / Conditional Licence No. 7239

NICOLA——WATER DISTRICT

Scale, 20 Chains to 1 Inch.



PORTION OF
I.R. No.3. DOUGLAS LAKE
17.5 acs. to be irrigated

L.1122

LEGEND
Point of Diversion ●
Ditch —·—·—

Signature E. Davis

Date 15th March 1940
F.L. 0903 for C.L. 7239
File 047917

EXHIBIT "A"

W.R.B. 2—2' '-4817

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The ~~Superintendent General~~ Director of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is **Nicola River,**

a tributary of **Thompson River.**

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is **21st June, 1940.**

(d.) The purpose for which the water is to be used is **irrigation.**

(e.) The maximum quantity of water which may be diverted from the stream is **17.5 acre-feet per annum.**

(f.) The period of the year during which the water may be used is **1st April to 30th September.**

(g.) The land upon which the water may be used is **7 acres of the portion of Douglas Lake Indian Reserve No. 3, situated East of District Lot 681, Kamloops Division of Yale District,**

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of **ditch.**

(i.) This licence is issued in substitution of Conditional Water Licence No. **14557.**

E. Davis

Comptroller of Water Rights.

ENTERED ON
Map No. 61G1
By LWS

File No. 0140065 Date issued **February 15th, 1943.** Licence No. **11811**

British Columbia.

To accompany Final Licence No. 11811

NICOLA WATER DISTRICT.

Scale, 20 Chains to 1 Inch.

N

TRUE NORTH

Point of Diversion "A"
Map 92-I-019-3-2

L. 681 Kam.

PART OF DOUGLAS LAKE I.R. No. 3

L. 665 Kam.

KAMLOOPS DIVISION OF YALE DIST.

L. 1122

LEGEND

Point of Diversion ●
Ditch ———

The boundaries of the land to which this licence is appertenant are shown thus; ———
Of which 7 acres are to be irrigated.

Signature E. Davis.

Date 15th Feb. 1943

F.L. 11811 for C.L. 14557
File 0140063

EXHIBIT "A"

WATER MANAGEMENT BRANCH

MINISTRY OF ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

FINAL WATER LICENCE

Upper Nicola Indian Band of P.O. Box 37, Merritt, B.C. V0K 2B0

is hereby authorized to divert and use water as follows:

(a) The stream on which the rights are granted is Spahomin Creek.

(b) The points of diversion are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 2nd May, 1869.

(d) The purpose for which this licence is issued is irrigation.

(e) The maximum quantity of water which may be diverted is 2,586.2 acre-feet per annum.

(f) The period of the year during which the water may be used is 1st May to 30th September.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Upper Nicola Indian Reserve No. 3 (Douglas Lake) of which 1,293.1 acres may be irrigated.

(h) The authorized works are diversion dams, ditches and flumes, located approximately as shown on the attached plan.

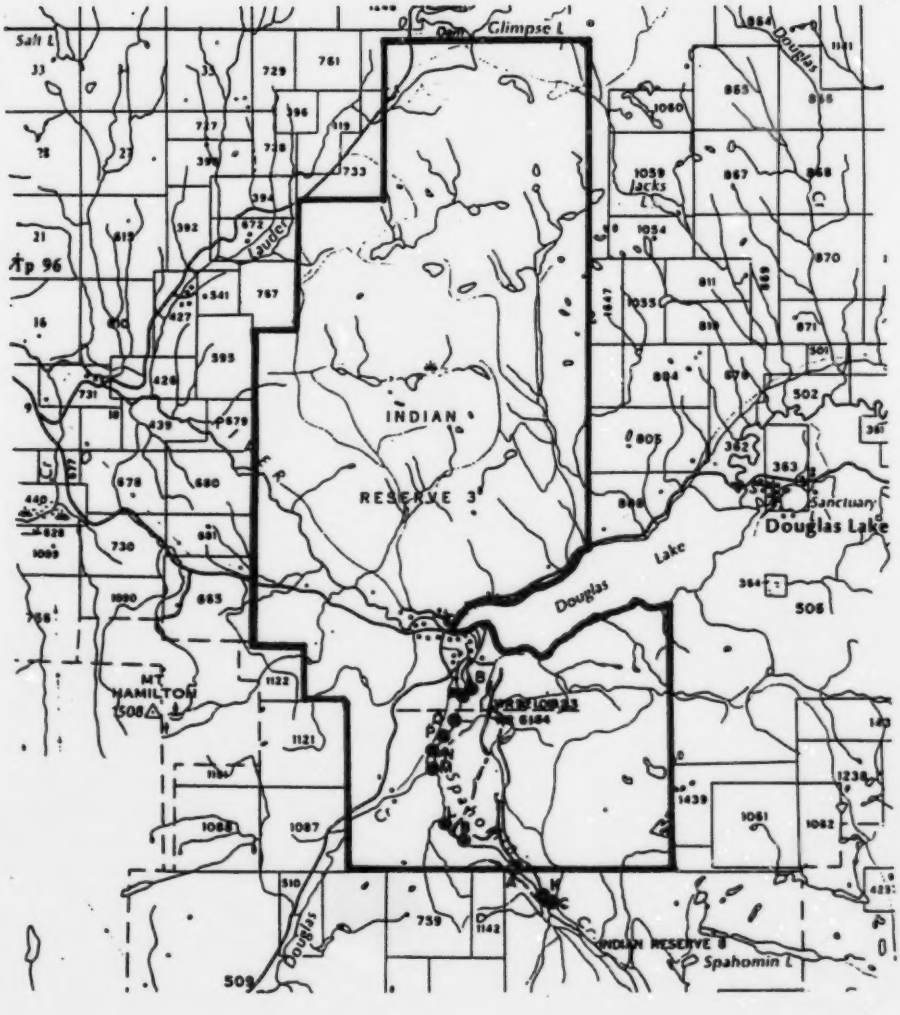
(i) The construction of the said works has been completed and the water is being beneficially used. The licence shall continue to make beneficial use of the water in the manner authorized herein.

(j) This licence is issued in substitution of Final Water Licence 10854, in part, under Section 15 of the Water Act.

A.D. Zackodnik, P. Eng.
Regional Water Manager

File: 0241024 Date Issued: AUG 21 1989 Final Licence: 67155

Province of British Columbia



WATER DISTRICT : NICOLA
PRECINCT : UPPER NICOLA
LAND DISTRICT : KAMLOOPS DIVISION OF YALE

LEGEND

Scale : 1:100,000
Points of Diversion-Dams : ●
Map Number : WR 92 I 019 2 3, WR 6164
Ditches and Flumes : — · —

The boundaries of the land to which this licence is appurtenant are shown thus: ———

Signature

Date AUG 21 1989

F.L. 67156 for F.L. 10854 in part
File 0241024

PROVINCE OF
BRITISH COLUMBIA

DEPARTMENT OF LANDS, FORESTS,
AND WATER RESOURCES

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

The Honourable Minister of Indian and Northern Affairs (Kamloops Agency) of Ottawa, Ontario.

the holder(s) of Conditional/~~Final~~ Water Licence(s) 43856 authorizing
the diversion of water from Chapperon Lake,
is/are hereby

authorized to occupy Crown land by constructing, maintaining, and operating thereon the works authorized under the said water licence and any licences which may be issued in substitution thereof.

(*a*) The Crown land which is authorized to be occupied under this permit is a portion of unsurveyed foreshore and land within Kamloops Division of Yale District covered by waters of Chapperon Lake,

the location of which is shown approximately on the plan attached to the said water licence.

(*b*) The approximate dimensions of the Crown land authorized to be occupied under this permit are 100 foot in length and 15 foot in width, having an area of 0.034 acre.

(*c*) Subject to the payment of royalty, stumpage, and other compensation, and the obtaining of a licence to cut timber as provided under Condition 5, the permittee may cut and remove from the said land any timber, the removal of which is necessary to permit construction and maintenance of the said works.

(*d*) The annual rental for this permit is $ 2.00 , which is subject to review and revision at any time at the discretion of the Crown.

(*e*) This permit is appurtenant to the land, mine, or undertaking to which the aforesaid water licence is appurtenant.

(*f*) The conditions relative to the rights granted under this permit are printed on the back of this form.

File No. 0316758

Ref. Map 92I/SE

W.R. Map 6158

Deputy Minister of Lands

Date issued: 1 April, 1975 Permit No. 9840

W.R.B. 12a— 0

Province of British Columbia

Ministry of Environment

PERMIT UNDER THE WATER ACT AUTHORIZING THE OCCUPATION OF CROWN LAND

The holder of Conditional Water Licence 67154 whose licence authorizes water rights from Spahomin Creek with point of diversion from Douglas Lake, is hereby authorized to occupy Crown Land by constructing, maintaining and operating thereon the works authorized under the said licence and any licence which may be issued in substitution thereof.

(a) The Crown Land which is authorized to be occupied under this permit is a portion of unsurveyed foreshore and land covered by the waters of Douglas Lake, the location of which is shown approximately on the plan attached to the said water licence.

(b) The approximate area of the Crown Land authorized to be occupied under this permit is 150 feet in length by 15 feet in width for an area of 0.05 acre.

(c) The permittee may cut and remove from the said Crown Land any timber necessary to permit construction and maintenance of the said works. Prior to the cutting, destruction or flooding of any timber, the permittee shall apply for and obtain a licence to cut timber from the District Manager and the amount of stumpage, royalty and (or) compensation payable to the Crown in respect of trees, including merchantable or young growth, cut, removed, damaged, or destroyed by the permittee, shall be the sum or sums fixed by the Forest Service of the Province of British Columbia.

(d) This permit is appurtenant to the land, mine or undertaking to which the aforesaid water licence is appurtenant.

(e) This permit shall become void if the water licence with respect to which the permit is issued should terminate, be abandoned or cancelled, or amended so as to render this permit unnecessary.

(f) This permit is issued and accepted on the understanding that the permittee shall indemnify and save harmless the Government of the Province of British Columbia for all loss, damage to works, cost or expense suffered by the permittee by reason of the Crown Land or any portion thereof being submerged or damaged by erosion or otherwise affected by flooding.

(g) The holder of this permit shall not be entitled to compensation if the Crown grants permits to other persons to occupy the land affected by this permit.

(h) In the event of a dispute at any time with respect to the area or boundaries of the land affected by this permit, the holder shall, at his own expense, have the said land surveyed by a duly qualified surveyor.

(i) The annual rental for this permit is $5.00, which is subject to review and revision at any time at the discretion of the Crown.

A.D. Zacharchuk
Regional Water Manager
duly authorized designate of the
Minister of Environment

File: 0241024 Date Issued: AUG 21 1989 Permit No: 17460

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DEPARTMENT OF LANDS.

Permit under the "Water Act, 1914" authorizing Entry upon Crown Lands.

WHEREAS William C. Ballin, Indian Agent. In trust for the Indians.

whose address is Kamloops, B.C.

being the holder of Conditional Licence 7305,

has petitioned the Minister of Lands for a permit to enter upon the unsurveyed Crown lands hereinafter described, and in respect thereof has complied with the requirements of the "Water Act, 1914," and the rules and regulations thereunder:

Now, therefore, in pursuance of the "Water Act, 1914," this permit is issued authorizing the holder of the above-mentioned licence (hereinafter called the "licensee") to enter upon, use, and occupy a right-of-way of the following dimensions: Length, 2000 feet; width, 15 feet; area, .69 acres, across the unsurveyed Crown lands known as Lot ——, and approximately shown in Exhibit "A" hereto, subject to the following terms and conditions:—

1. The easement granted by this permit is appurtenant to the Spahomin Creek Indian Reserve No. 4 of the Upper Nicola Indians.—

2. The period during which the authority granted under this permit may be exercised, unless sooner terminated as herein provided, is 20 years, subject, however, to renewal at the end of the said term under the laws and regulations then in force.

3. There shall be payable under this permit on the date hereof and annually hereafter, at the office of the Comptroller of Water Rights at the City of Victoria, whether demanded or not, an annual rental of such amount as may be fixed by or under any rules and regulations respecting the entry upon, use of, or occupation of Crown lands made from time to time by His Honour the Lieutenant-Governor in Council under authority lawfully vested in him. The said annual rental until lawfully altered shall be $——, and unless the said annual rental is paid punctually as aforesaid this permit may be cancelled without notice.

W.R.B. No. 1020—500-6-22—8160

X

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4. ... permit gives the licensee the right to cut or remove from said lands such timber only as is necessary for the construction of the said works thereon under said licence and subject to the payment by way of stumpage at the rate of $...1.00... per one thousand feet board measure and royalty as provided for in the "Timber Royalty Act," the same to be determined, paid, and collected according to the provisions of the "Forest Act" relating to the collection of royalty.

5. There is reserved to the Crown the right to grant to other persons permits to enter upon, use, and occupy the lands over which the said right-of-way is granted hereunder without payment to the licensee, or his successors in title, of compensation, save for actual damage.

6. In the event of a dispute arising at any time during the term of this permit between the licensee and the registered owner of the lands immediately adjacent to the said right-of-way respecting the exact location of the said right-of-way, the licensee shall at his own expense have the said right-of-way surveyed by a duly qualified land surveyor, and shall likewise file in the Lands Department at Victoria, B.C., a map or plan showing the said right-of-way as surveyed.

7. This permit and the rights granted hereunder shall be subject always to compliance by the licensee with all the terms and conditions of the said licence, and if the said licence should at any time lapse, expire, be cancelled, abandoned, or declared null and void, this permit shall, *ipso facto*, become void and of no effect and all rights granted hereunder shall cease and determine.

8. This permit and the rights granted hereunder shall be subject always to compliance by the licensee with the terms and conditions herein contained, and if the licensee fail at any time to fulfil, keep, and observe the said terms and conditions, or any of them, it shall be lawful for the Minister of Lands of the Province of British Columbia, his agent or servant, on behalf of the Crown, upon thirty days' notice to that effect, absolutely to cancel all the rights granted hereunder; and thereupon this permit and the said rights shall cease, determine, and be of no effect without any other proceeding whatever.

9. This permit shall have the effect only of a permit issued under section 23 of the said "Water Act, 1914," and the easements, rights, and privileges of the licensee in respect of the said lands thereunder shall be construed as subject always to all the provisions of the said Act and amendments thereof and all rules and regulations from time to time made thereunder.

Issued this 12th day of April, 192 1.

File 047916.

Minister of Lands.

Stream Register Report Water Licence Information System

Report Requested By : DWXXXS
Date Report Requested : 1996/04/01 16:01
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : 8D13089 - Chapperon Lake on Chapperon Creek
END POINT : 8D13085 - Chapperon Creek right of Nicola River

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			WR Map	POD	RED	POD Comments			Proc	
1980/01/15	F003611	0241715	679.0 AC OF L 501, 502, 503, 504 429,396,362 A 676 RDVD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0K1H0	DOM IRR	5,000.00 GD 1,355.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	SUPPLEMENTARY TO F 3699 JACK DOUGLAS CR & F 3610 HAMME CR STORE AT C 33810 CHAPPERON CR	VAN VICTORIA AMENDMENT
Chapperon Creek			WR92.I.020	J	N				21D MIC - UPPER NICOLA	
Chapperon Creek			WR92.I.020	K	N					
1980/01/30	C067207	0018157	237.3 AC OF THOSE PARTS OF L 450 504 & 507 LYING N OF CHAPPERON CR RDVD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0K1H0	IRR	676.00 AF	Apr 01	Sep 30		
Chapperon Creek			WR93.I.020	G	N				21D MIC - UPPER NICOLA	
1967/03/14	C033916	0273163	300 AC OF L 357 & 507 RDVD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0K1H0	IRR	600.00 AF	Apr 01	Sep 30		
Chapperon Creek			WR92.I.020	A	N				21D MIC - UPPER NICOLA	
1970/06/02	C063062	0296522	STOR FOR F 3698 & 3611 CHAPPERON CR & F 4040 NICOLA R	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0K1H0	STORP	2,694.00 AF	Oct 01	Jun 15	STOR IN CHAPPERON LK	AMD UNDER AMENDMENT
Chapperon Creek			WR92.I.020	J	N				21D MIC - UPPER NICOLA	
1973/04/17	C063857	0316758	STOR FOR C 63854 CHAPPERON LK	UPPER NICOLA INDIAN BAND 981-497-7252 BOX 37 MERRITT BC V0K1B0	STORP	660.00 AF	Oct 01	Jun 15	STOR IN CHAPPERON LK	AMD UNDER AMENDMENT
Chapperon Creek			WR93.I.030	J	N				21D MIC - UPPER NICOLA	

---------- Total of 5 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : ENGGUS
Date Report Requested : 1996/03/06 08:34
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H0132090 - Frank Ward Creek left of Chapperon Lake
END POINT : S0132089 - Chapperon Lake on Chapperon Creek

Stream Registar Report

Water Licence Information System

DATE: 1996/03/06
TIME: 08:34
PAGE: 001

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		MR Map	POD	RED POD Comments				Prec	
1973/06/17	C063056	0316758 220 AC OF IR #5 CHAPPERON LK KDYD	UPPER NICOLA INDIAN BAND 981-697-7252 BOX 37 MERRITT BC V0K2B0	IRR	440.00 AF	Apr 01	Sep 30	STOR AT C 43857 CHAPPERON CR	
Chapperon Lake		MR92.I.030	L N						
Chapperon Lake		MR92.I.030	K N					21D NIC - UPPER NICOLA	

---------- Total of 1 Licence Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : SMOOAB
Date Report Requested : 1996/03/06 08:39
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : F054389 - 6164 D
END POINT : S012079 - Douglas Creek left of Spahmin Creek

Stream Register Report

Water Licence Information System

DATE: 1996/03/06
TIME: 08:39
PAGE: 001

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	POD	RED POD Comments					Proc	
1989/05/02	F010855	0241025 10 AC OF IR 83 DOUGLAS LK KDYD	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0X280	IRR	20.00 AF	Apr 01	Sep 30		
Douglas Creek	WR6164	J	N					21D NIC - UPPER NICOLA	
Douglas Creek	WR6164	R	N						
Douglas Creek	WR6164	D	N						

---------- Total of 1 Licence Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : DMOOUS
Date Report Requested : 1996/03/06 08:36
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H012080 - Nicola River left of Douglas Lake
END POINT : S012077 - Douglas Lake on Nicola River

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map	POD	RED	POD Comments			Prec	
1889/05/02	C067154	0241024	TO THE SPAHOMIN SCHOOL PROJECT OF THE LICENSEE WITHIN UPPER NICOLA INDIAN RESERVE #3 (DOUGLAS LK)	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	INSTI	20,000.00 GD	Jan 01	Dec 31	INSTITUTIONS MAXIMUM RATE FROM DOUGLAS LAKE AT ANY TI ME SHALL NOT EXCEED AVAILABLE RATE OF FLOW BELOW B WR92.I.019.2.3 ON SPAHOMIN CREEK AT THAT TIME	
	Douglas Lake		WR92.I.019.2.3	C	N				21D NIC - UPPER NICOLA	
	Spahomin Creek		WR92.I.019.2.3	B	N	SHOWN AS REFERENCE POINT ON PLAT				

---------- Total of 1 Licence Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : CMOORE
Date Report Requested : 1996/04/03 08:16
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H013076 - Blue Creek left of Glimpse Lake
END POINT : S013073 - Glimpse Lake on Lauder Creek

Stream Register Report

Water Licence Information System

DATE: 1996/04/03
TIME: 08:14
PAGE: 001

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	MR Map	POD	RED POD Comments						Prec	
1985/04/19	C066956	3000754	L 8 OF L 3367 KDYD PLAN 26024	SMITH JANET L BIRD GWEN E PO BOX 18 QUILCHENA BC V0E2R0	DOM	500.00 GD	Jan 01	Dec 31		
Glimpse Lake	MR92.I.029	N	N						21D NIC - UPPER NICOLA	
1986/10/03	C066991	3000966	L 9 OF L 3367 KDYD PLAN 26024	BUCHER BENNO A L & COURINE R 1437 ENDERBY AVE DELTA BC V4L1S6	DOM	500.00 GD	Jan 01	Dec 31		
Glimpse Lake	MR92.I.029	J	N						21A NIC - LOWER NICOLA	
1993/03/18	2106362	3002434	L27 DL3367 PLAN26024 KDYD	MAGNUSSON OLAFUR J & SUSANNA M 34646 DEVON CRES ABBOTSFORD BC V2S3X6	DOM	500.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
Glimpse Lake	MR92.I.029	N	N						21D NIC - UPPER NICOLA	

---------- Total of 3 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : BROOKS
Date Report Requested : 1996/03/06 09:26
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H012073 - Glimpse Lake on Louder Creek
END POINT : H012069 - Louder Creek right of Nicola River

Stream Register Report — Water Licence Information System — DATE: 1994/03/06 TIME: 09:34 PAGE: 001

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	PUD	DED PUD Comments					Proc	
1897/06/16	P006301	0261712 79.5 AC OF L 672 SDVD	LAUDER RANCHES LTD GD QUILCHENA BC V0E2H0	DOM IRR	500.00 GD 159.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT P 10195 LAUDER CR SUPPLEMENTARY TO P 6288 GILLESPIRE CR	AND UNDER AGREEMENT
Lauder Creek	WR92.I.029	C N						21D NIC - UPPER NICOLA	
1934/10/05	P009769	0092/01 122.9 AC OF L 427, 541, 767 & 392 SDVD	LAUDER RANCHES LTD GD QUILCHENA BC V0E2H0	IRR	300.00 AF	Apr 01	Sep 30	STOR AT P 10195 LAUDER CR	AND UNDER AGREEMENT
Lauder Creek	WR92.I.029	D N						21D NIC - UPPER NICOLA	
Lauder Creek	WR92.I.029	A N							
Lauder Creek	WR92.I.029.3.3	D N							
Lauder Creek	WR92.I.029.3.3	A N							
1935/03/04	P010195	0120160 STOR FOR P 9769 LAUDER CR	LAUDER RANCHES LTD GD QUILCHENA BC V0E2H0	STORP	300.00 AF	Oct 01	Jun 15	STOR IN GLENFIRE LK	
Lauder Creek	WR92.I.029	D N						21D NIC - UPPER NICOLA	
1935/03/04	P010196	0119310 STOR FOR P 6281 LAUDER CR	LAUDER RANCHES LTD GD QUILCHENA BC V0E2H0	STORP	159.00 AF	Oct 01	Jun 15	STOR IN GLENFIRE CR	
Lauder Creek	WR92.I.029	D N						21D NIC - UPPER NICOLA	
1992/05/14	2104763	3002369 DOUGLAS LAKE IR 3	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0E2B0	STORP	300.00 AF	Jan 01	Dec 31		APP APPLIC-CLEARED
Lauder Creek	WR92.I.029	D Y						21D NIC - UPPER NICOLA	

---------- Total of 5 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : SMOGUS
Date Report Requested : 1996/03/22 11:39
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : NO12065 - Moore Creek right of Nicola Lake
END POINT : SO584 - Nicola Lake on Nicola River

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		MR Map	POD RED POD Comments					Proc	
1923/05/21	C110654	0115509 SEE FILE	COQUIHALLA DEVELOPMENTS CORP BOX 4000 MERRITT BC V0K2B0	IRR	400.00 AF	Apr 01	Sep 30		
Nicola Lake		MR92.I.017.4.1	C N					21A NIC - LOWER NICOLA	
1935/11/20	P008273	0065032 63.3 AC OF L 150, L 3373 & OF THE MLY PORTION OF L 150 AS SHOWN ON PLAN B232 KDYD	GAVELIN SETT A BOX 6110 LOWER NICOLA BC V0E1Y0	IRR	158.50 AF	Apr 01	Sep 30		
Nicola Lake		MR92.I.017.4.1	C N					21B NIC - MERRITT	
1969/02/07	C110655	0177422 SEE FILE	COQUIHALLA DEVELOPMENTS CORP BOX 4000 MERRITT BC V0K2B0	IRR	1,300.00 AF	Apr 01	Sep 30		
Nicola Lake		MR92.I.017	I N					21A NIC - LOWER NICOLA	
Nicola Lake		MR92.I.017	Q N						
Nicola Lake		MR92.I.017.4.1	K N						
Nicola Lake		MR92.I.017	Y N						
Nicola Lake		MR92.I.018	S N						
1966/12/23	C032982	0270893 IR #1 NICOLA LK KDYD EXC KAM MERRITT HWY (PLAN H 279)	UPPER NICOLA INDIAN BAND 981-497-7248 BOX 37 MERRITT BC V0K2B0	WWSOT	10,000.00 GD	Jan 01	Dec 31		
Nicola Lake		MR92.I.018.4.3	A N					21D NIC - UPPER NICOLA	
1978/09/11	C054670	0364659 L 8 OF L 3914 KDYD PLAN 35919	SENGER EDWARD & PAULA PO BOX 651 MERRITT BC V0K2B0	DOM	500.00 GD	Jan 01	Dec 31		
Nicola Lake		MR92.I.018	R N					21A NIC - LOWER NICOLA	

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		NR Map	POD SRD POD Comments					Proc	
1979/03/12	2103098	0365299 L 115, 1080 & 570 KDYD	NICOLA RANCH LTD C/O JOHN LIU BOX 4000 MERRITT BC V0K2B0	IRR	1,200.00 AF	Apr 01	Sep 30		APP APPLIC-CLEARED
Nicola Lake		NR92.I.017	Q N					21A NIC - LOWER NICOLA	
1987/12/08	2103179	3001146 SEC 32 TP 95 KDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0K2R0	DOM	300.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
Nicola Lake		NR92.I.018	L N					21D NIC - UPPER NICOLA	
1987/12/10	2103178	3001148 S 1/2 OF SEC 32 TP 95 KDYD SHOWN AS P ARCEL A ON PLAN B3306	WHITECROSS GRAHAM QUILCHENA BC V0K2R0	DOM	250.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
Nicola Lake		NR92.I.018	N N					21D NIC - UPPER NICOLA	
1988/04/25	2103394	3001252 L 108 KDYD	HUBER MARGARET I GD QUILCHENA BC V0K2R0	DOM IRR	1,000.00 GD 275.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		APP APPLIC-CLEARED
Nicola Lake		NR92.I.018	N N					21D NIC - UPPER NICOLA	
1988/08/02	2103143	3001330 L 113 KDYD	DOOLEY CHRIS L PO BOX 2971 MERRITT BC V0K2B0	DOM IRR STORF	1,000.00 GD 25.00 AF 75.00 AF	Jan 01 Apr 01 Jan 01	Dec 31 Sep 30 Dec 31		APP APPLIC-CLEARED
Nicola Lake		NR92.I.017	N N					21B NIC - MERRITT	

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		WR Map	POD	RED POD Comments				Proc	
1995/03/07	2109376	3002860 SW CORNER OF DL 115 KDYD	NICOLA RANCH LTD C/O JOHN LIU BOX 4000 MERRITT BC V0K2B0	IRR	100.00 AF	Jan 01	Dec 31		APP APPLIC-CLEARED
Nicola Lake		092.I.017.4.1	E N					21A NIC - LOWER NICOLA	
1995/05/10	2109639	3002909 BLK F DL 4277 KDYD	WASHINGTON JOHN L TERESA 9829 WRIGHT ST LANGLEY BC V1A1P8	DOM	500.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
Nicola Lake		092.I.020.3.3	D N					21D NIC - UPPER NICOLA	

---------- Total of 13 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : DWOODS
Date Report Requested : 1996/03/22 11:45
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H012077 - Douglas Lake on Nicola River
END POINT : H012963 - Nicola River left of Nicola Lake

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	POD	RED POD Comments						Proc	
1871/11/07	P006697	0241708	226.2 AC OF L 105 KDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	DOM IRR	5,000.00 GD 455.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Nicola River	MR92.I.028.2.2	B	N						21D NIC - UPPER NICOLA	
Nicola River	MR92.I.028.2.2	A	N							
1889/05/02	P010822	0241026	190.2 AC OF IR #1 NICOLA LK KDYD	UPPER NICOLA INDIAN BAND 981-697-7248 BOX 37 MERRITT BC V0K2B0	IRR	475.50 AF	Apr 01	Sep 30		
Nicola River	MR92.I.028	E	N						21D NIC - UPPER NICOLA	
Nicola River	MR92.I.028	C	N							
Nicola River	MR92.I.028	D	N							
1906/05/22	P006698	0241710	26.8 AC OF L 106 KDYD LYING S OF NICOLA R	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	DOM IRR	500.00 GD 54.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Nicola River	MR92.I.028.2.2	B	N						21D NIC - UPPER NICOLA	
1906/05/22	P006699	0241711	34 AC OF L 106 KDYD LYING N OF NICOLA R	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	DOM IRR	500.00 GD 48.50 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Nicola River	MR92.I.028.2.2	A	N						21D NIC - UPPER NICOLA	
1923/06/20	C065616	0047917	17.5 AC OF IR #3 DOUGLAS LK	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	IRR	35.00 AF	Apr 01	Sep 30		
Nicola River	MR92I/2M(I)	C	N						21D NIC - UPPER NICOLA	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			NR Map	POD	RED	POD Comments				Proc
1928/03/16	F009600	0080751	100 AC OF L 105, 106 & 220 N 1/2 OF SEC 19 TP 94 NE 1/4 OF SEC 24 TP 97 KDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	IRR	200.00 AF	Apr 01	Sep 30		
Nicola River				NR92.I.020.3.3	B	N				31D NIC - UPPER NICOLA
Nicola River				NR92.I.019.4.4	A	N				
1948/06/21	F011611	0140043	7 AC OF THE PORTION OF IR #3 DOUGLAS LK KDYD LYING E OF L 681	UPPER NICOLA INDIAN BAND 981-497-7250 BOX 37 MERRITT BC V0K2B0	IRR	17.50 AF	Apr 01	Sep 30		
Nicola River				NR92.I.019.3.3	A	N				31D NIC - UPPER NICOLA

---------- Total of 7 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : ENGOUS
Date Report Requested : 1996/03/06 08:58
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : 8012179 - Tommy Lake on Quilchena Creek
END POINT : 8012059 - Quilchena Creek left of Nicola Lake

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	POD	RED POD Comments					Prec	
1868/06/29	F004057	0241689 100 AC OF NLY 160 AC PARCEL OF L 109 KDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	DOM IRR	500.00 GD 200.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT P 44731 WASLEY CR, C 44686 QUILCHENA CR & P 44075 POTHOLE CR	
Quilchena Creek	WR92.I.010	D N						21D NIC - UPPER NICOLA	
1871/10/14	F005901	0241690 144.7 AC OF L 108 KDYD	HUBER MARGARET I GD QUILCHENA BC V0E2R0	DOM IRR	500.00 GD 290.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT P 44641 WASLEY CR, C 44642 QUILCHENA CR & P 44074 POTHOLE CR	AMD UNDER AMENDMENT
Quilchena Creek	WR92.I.010	D N						21D NIC - UPPER NICOLA	
1878/09/10	F004059	0241691 185 AC OF L 112 KDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	DOM IRR	500.00 GD 370.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT P 44731 WASLEY CR, C 44686 QUILCHENA CR & P 44075 POTHOLE CR	
Quilchena Creek	WR92.I.010	G N						21D NIC - UPPER NICOLA	
Quilchena Creek	WR92.I.010	F N							
1889/05/02	F009005	0241027 30 AC OF IR #2 QUILCHENA KDYD	UPPER NICOLA INDIAN BAND 981-697-7249 BOX 37 MERRITT BC V0K2B0	DOM IRR	500.00 GD 75.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Quilchena Creek	WR92.I.010	R N						21D NIC - UPPER NICOLA	

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		WR Map	POD	RED POD	Comments				Proc
1899/05/01	F010821	0261029 198.6 AC OF IR #7 HAMILTON CR RDYD	LOWER NICOLA INDIAN BAND 981-695-7229 RR 1 COMP 18 SITE 17 MERRITT BC V0K2B0	IRR	217.30 AF	Apr 01	Sep 30		
Quilchena Creek		WR92.I.008	G	N				21D NIC - UPPER NICOLA	
Quilchena Creek		WR92.I.008	H	N					
Quilchena Creek		WR92.I.008	F	N					
Quilchena Creek		WR92.I.008	E	N					
Quilchena Creek		WR92.I.008	D	N					
Quilchena Creek		WR92.I.008	C	N					
Quilchena Creek		WR92.I.008	B	N					
Quilchena Creek		WR92.I.008	A	N					
1891/03/06	F006058	0261693 132 AC OF L 110 RDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0K2R0	DOM IRR	5,000.00 GD 244.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT F 44731 MASLEY CR, C 44686 QUILCHENA CR & F 44075 POTHOLE CR	
Quilchena Creek		WR92.I.010	J	N				21D NIC - UPPER NICOLA	
Quilchena Creek		WR92.I.010	B	N					
1905/09/23	F006060	0261693 189 AC OF L 206, 425 & 613 & OF MLY 215 AC PARCEL OF L 189 RDYD	QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0K2R0	DOM IRR	2,000.00 GD 378.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOR AT F 44731 MASLEY CR & F 44075 POTHOLE CR	
Quilchena Creek		WR92.I.010	B	N				21D NIC - UPPER NICOLA	
Quilchena Creek		WR92.I.010	K	N					
Quilchena Creek		WR92.I.010	G	N					
Quilchena Creek		WR92.I.010	F	N					
Quilchena Creek		WR92.I.010	D	N					
Quilchena Creek		WR92.I.010	J	N					

Priority YYYY/MM/DD	Licence File Number	Appurtenancy Number	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WR Map	POD	RED POD Comments					Proc	
1928/06/15	P044660	0328517	16.5 AC OF L 108 KDYD HUBER MARGARET I GD QUILCHENA BC V0E2R0	IRR	33.00 AF	Apr 01	Sep 30	STOR AT F 44641 WASLEY CR & C 44642 QUILCHENA CR	AMD UNDER AMENDMENT
Quilchena Creek	WR92.I.018	D	N					21D NIC - UPPER NICOLA	
1928/06/15	P044730	0081915	145.4 AC OF L 613,206,132,109, 110.211 & 210 KDYD QUILCHENA CATTLE CO LTD GD QUILCHENA BC V0E2R0	IRR	290.80 AF	Apr 01	Sep 30	STOR AT C 44696 QUILCHENA CR	
Quilchena Creek	WR92.I.018	B	N					21D NIC - UPPER NICOLA	
Quilchena Creek	WR92.I.018	H	N						
Quilchena Creek	WR92.I.018	G	N						
Quilchena Creek	WR92.I.018	F	N						
Quilchena Creek	WR92.I.018	D	N						
Quilchena Creek	WR92.I.018	C	N						
1986/04/14	C066876	3000904	THE CONS PROJECT OF THE APPLICANT WITHIN L 687, 488 UCL KDYD DUCKS UNLIMITED (CANADA) 954A LAVAL CRES KAMLOOPS BC V2C5P5	CONST	98.00 AF	Oct 01	Jun 15	WATERFOWL HABITAT ENHANCEMENT STOR IN TOMMY LK	
Quilchena Creek	WR92.H.098	C	N					21D NIC - UPPER NICOLA	
1986/04/14	C066877	3000904	L 687, 488 & 447 KDYD DUCKS UNLIMITED (CANADA) 954A LAVAL CRES KAMLOOPS BC V2C5P5	IRR STORP	257.00 AF 257.00 AF	Apr 01 Oct 01	Sep 30 Jun 15	STOR IN TOMMY LK	
Quilchena Creek	WR92.H.098	C	N					21D NIC - UPPER NICOLA	

---------- Total of 11 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : DMCCAIG
Date Report Requested : 1996/03/25 16:09
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : F056376 - 92.I.030 H
END POINT : S013082 - Range Creek right of Nicola River

Stream Register Report

Water Licence Information System

DATE: 1996/05/05
TIME: 16:09
PAGE: 001

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	POU	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source	WS Map	PID	RED PID Comments							
1977/05/01	P003[illegible]	0361716	132 AC OF L 439 KSYD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0E1S0	DOM IRR	500.00 GD Jan 01 Dec 31 361.00 AF Apr 01 Sep 30			SUPPLEMENTARY TO P 3611 CHAPPERON CR	
Range Creek	WR92.I.030.3.3	D	N							
Range Creek	WR92.I.020.3.3	C	N						21D NIC - UPPER NICOLA	
1938/08/20	P011796	0132151	61 AC OF L 898 & 899 KSYD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0E1S0	IRR	122.00 AF Apr 01 Sep 30				
Range Creek	WR92.I.030	E	N						21D NIC - UPPER NICOLA	

---------- Total of 2 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : EMOSAS
Date Report Requested : 1996/03/06 08:49
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : H0121ll - Fennask Lake on Spahomin Creek
END POINT : S0122078 - Spahomin Creek left of Douglas Lake

Stream Register Report

Water Licence Information System

DATE: 1996/03/06
TIME: 08:49
PAGE: 001

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source		MR Map	PSD	RSD POD Comments					Proc	
1888/05/02	C067154	0241024	TO THE SPAHOMIN SCHOOL PROJECT OF THE LICENSEE WITHIN UPPER NICOLA INDIAN RESERVE #3 (DOUGLAS LK)	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	INSTI	20,000.00 GD	Jan 01	Dec 31	INSTITUTIONS MAXIMUM RATE FROM DOUGLAS LAKE AT ANY TI ME SHALL NOT EXCEED AVAILABLE RATE OF FLOW BELOW S MR92.I.019.2.3 ON SPAHOMIN CREEK AT THAT TIME	
Spahomin Creek		MR92.I.019.2.3	B N	SHOWN AS REFERENCE POINT ON PLAT					21D NIC - UPPER NICOLA	
Douglas Lake		MR92.I.019.2.3	C N							
1888/05/02	F067155	0241024	1293.1 AC OF UPPER NICOLA INDIAN RESERVE #3 (DOUGLAS LK)	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	IRR	2,586.20 AF	May 01	Sep 30		
Spahomin Creek		MR92.I.009	B N						21D NIC - UPPER NICOLA	
Spahomin Creek		MR92.I.009	C N							
Spahomin Creek		MR6164	B N							
Spahomin Creek		MR6164	H N							
Spahomin Creek		MR6164	L N							
Spahomin Creek		MR92.I.009	A N							
Spahomin Creek		MR6164	N N							
Spahomin Creek		MR6164	P N							
Spahomin Creek		MR6164	Q N							
Spahomin Creek		MR92.I.019.2.3	A N							
Spahomin Creek		MR92.I.019.2.3	S N							
1933/06/30	C087305	0947914	30 AC OF IR #4 SPAHOMIN CR RSVD	UPPER NICOLA INDIAN BAND 981-697-7251 BOX 188 MERRITT BC V0K2B0	EXN IRR	500.00 GD 60.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Spahomin Creek		MR92.I.010	A N						21D NIC - UPPER NICOLA	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			WN Map	PSO	RSD PSO Comments				Prac	
1923/06/30	P010053	0047915	108.5 AC OF IR 88 SPAHOMIN CR RSVD	UPPER NICOLA INDIAN BAND 981-697-7255 BOX 188 MERRITT BC V0K2B0	IRR	217.00 AF	Apr 01	Sep 30		
Spahomin Creek			WN92.I.009	J N					31D NIC - UPPER NICOLA	
Spahomin Creek			WN92.I.009	K N						
1937/06/19	C106093	0078941	LOTS 683 695 & 791 RSVD	DOUGLAS LAKE CATTLE CO LTD GD DOUGLAS LAKE BC V0K1B0	PONDS	237.40 AF	Oct 01	Jun 15	STOR AT STONY LK	
Spahomin Creek			WN92.I.009	J N					31D NIC - UPPER NICOLA	
Stony Creek			WN92.I.008	N N						
Quilchena Creek			WN92.I.009	D N						
Quilchena Creek			WN92.H.099	B N						
1967/02/23	C035029	0273081	500 AC OF IR 83 DOUGLAS LK & 88 SPAHOMIN CR RSVD	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	IRR	1,500.00 AF	Apr 01	Sep 30	STOR AT C 35030 SPAHOMIN CR	
Spahomin Creek			WN92.I.009	L N					31D NIC - UPPER NICOLA	
1985/07/31	C046928	3000807	THE COHO PROJECT OF THE LICENSEE WITHIN L 4822 RSVD	FISHERIES BRANCH 1259 DALHOUSIE DR KAMLOOPS BC V2C5S5	COHOK	0.00 TF	Jan 01	Dec 31	FISH PRDCE	
Spahomin Creek			WN92.I.010	C H					31D NIC - UPPER NICOLA	

Stream Register Report | Water Licence Information System | DATE: 1996/03/06 TIME: 08:48 PAGE: 883

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		NR Reg	POD	RED POD Comments				Proc	
1992/11/10	2105666	3002363	IR 3 DOUGLAS LAKE NE END OF SMITHERS FIELD	UPPER NICOLA INDIAN BAND 981-697-7250 BOX 37 MERRITT BC V0K2B0	PONDS	500.00 GD	Jan 01	Dec 31		APP APPLIC-CLEARED
	Spahomin Creek		NR6164	0	N				310 NIC - UPPER NICOLA	

---------- Total of 0 Licences Reported ----------

NICKLEN CREEK NEAR LUMBY (UPPER STATION) - STATION NO. 08LC010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	---	---	1921
				---	MEAN

NICOLA POWER CANAL AT NICOLA - STATION NO. 08LG043

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	---	3.26	1.45	1.16	0.892	---	---	---	---	1948
1950	---	---	---	0	2.03	4.59	2.89	2.97	2.21	---	---	---	---	1950
MEAN	---	---	---	0	2.03	3.93	2.17	2.07	1.55	---	---	---	---	MEAN

LOCATION - LAT 50 09 49 N
LONG 120 39 57 W REGULATED

NICOLA POWER CANAL AT NICOLA - STATION NO. 08LG043

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	5.01 ON JUN 02 *	---	---	1948
1950	---	4.96 ON JUN 10	0 ON APR 01 *	---	1950
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

NICOLA RIVER ABOVE NICOLA LAKE - STATION NO. 08LG049

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	7.97	5.46	1.99	0.519	---	---	---	---	1915
1916	---	---	---	---	---	20.5	12.4	3.13	0.759	---	---	---	---	1916
1917	---	---	---	2.11	17.6	30.2	8.13	0.632	---	---	---	---	---	1917
				0.779	11.5									
1933	---	---	---	---	---	20.3	5.70	1.01	0.343	0.431	1.56	1.33	---	1933
1965	---	---	---	---	21.0	17.3	2.47	1.01	0.834	---	---	---	---	1965
1966	---	---	---	---	24.4	7.36	2.78	1.10	0.342	---	---	---	---	1966
1967	---	---	---	2.13	11.4	19.6	3.29	0.308	0.054	0.021	0.159	0.139	---	1967
1968	0.443	1.08	0.817	0.576	11.84	23.1	4.59	0.999	0.732	0.623	0.817	1.03	4.49	1968
1969	0.588	0.490	0.450	0.666	16.7	34.8	7.98	4.37	0.281	0.199	0.320	0.875	0.100	4.48	1969
1970	0.378	0.757	0.619	1.47	6.32	8.16	1.31	0.153	0.041	0.062	0.082	0.052	1.61	1970
1973	0.664	0.719	0.922	1.02	9.19	7.33	2.33	0.229	0.055	0.036	0.124	0.246	1.91	1973
1974	0.413	0.959	0.883	2.17	25.1	35.8	8.10	1.35	0.361	0.187	0.205	0.274	6.33	1974
1975	0.308	0.818	0.987	1.17	15.8	29.2	5.13	1.28	0.662	0.292	0.355	0.538	4.71	1975
1976	0.793	0.746	0.635	1.26	10.3	12.7	4.60	7.26	5.50	1.62	1.07	0.914	4.63	1976
1977	0.965	1.12	0.788	2.98	13.6	4.95	---	---	---	---	---	---	---	1977
1978	0.327	0.432	0.842	1.29	18.8	18.3	4.10	0.774	1.62	1.69	2.50	1.56	4.37	1978
1979	0.922	0.729	0.474	0.847	19.8	6.88	2.49	0.404	0.183	0.084	0.103	0.109	2.77	1979
1980	0.132	0.232	0.430	1.94	11.5	8.60	4.61	1.53	1.22	0.580	0.930	0.768	2.71	1980
1981	1.13	0.993	0.977	1.93	15.0	12.4	7.28	2.61	1.47	1.28	2.15	1.44	4.08	1981
1982	1.17	1.39	1.35	1.43	17.3	19.1	14.0	4.45	1.62	1.54	1.32	1.73	5.57	1982
1983	1.25	1.32	2.01	4.17	15.3	14.5	4.93	2.22	1.50	0.923	1.86	1.31	3.86	1983
1984	1.51	1.47	1.64	3.50	12.4	28.0	6.93	1.76	0.503	0.512	0.651	0.527	4.93	1984
1985	0.822	0.735	0.786	2.52	14.7	9.63	1.78	0.323	0.139	0.245	0.285	0.220	2.70	1985
1986	0.375	1.15	1.25	2.18	20.8	14.0	5.73	1.99	1.04	1.60	1.01	2.01	5.60	1986
1987	0.808	0.809	1.42	4.49	18.3	4.72	1.30	0.416	0.067	0.032	0.040	0.050	2.47	1987
1988	0.042	0.064	0.153	1.05	8.34	3.77	1.73	0.529	0.142	0.198	0.332	0.359	1.56	1988
1989	0.509	0.391	0.689	2.62	14.4	9.79	4.62	2.38	2.02	1.23	1.58	1.49	3.50	1989
1990	1.27	0.895	1.16	7.17	14.3	27.8	6.10	1.36	0.753	0.281	0.464	0.734	5.18	1990
MEAN	0.706	0.824	0.918	2.25	16.0	15.3	5.05	1.54	0.872	0.627	0.840	0.779	3.86	MEAN

LOCATION - LAT 50 11 32 N DRAINAGE AREA, 1 500 km^2
LONG 120 24 28 W REGULATED

NICOLA RIVER ABOVE NICOLA LAKE - STATION NO. 08LG049

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	18.8 ON MAY 21	0.368 ON SEP 17	---	1915
1916	---	22.7 ON JUN 04	0.651E ON SEP 22	---	1916
1917	---	35.4 ON JUN 01	0.028 ON SEP 17	---	1917
1933	---	27.8 ON JUN 08	0.241 ON SEP 28	---	1933
1965	---	31.7 ON JUN 04	0.793 ON SEP 14	---	1965
1966	---	16.5 ON MAY 14	0.190 ON SEP 30	---	1966
1967	---	29.7 ON JUN 05	0.014 ON OCT 13	---	1967
1968	---	53.8 ON MAY 25	0.048B ON JAN 10	142 000	1968
1969	---	56.6E ON MAY 17 *	0.023 ON DEC 13	141 000	1969
1970	---	14.2 ON JUN 06	0.034 ON AUG 31	50 900	1970
1973	---	17.0 ON MAY 27	0.020E ON SEP 23	60 300	1973
1974	52.4 AT 15:30 PST ON JUN 18 *	49.3 ON JUN 18	0.159 ON OCT 24	199 000	1974
1975	52.4 AT 10:00 PST ON JUN 04	49.3 ON JUN 04	0.221 ON JAN 06	149 000	1975
1976	24.2 AT 22:30 PST ON MAY 12	26.6 ON MAY 12	0.538B ON MAR 03	147 000	1976
1977	17.0 AT 02:41 PST ON MAY 06	16.9 ON MAY 15	---	---	1977
1978	32.6 AT 11:51 PST ON MAY 23	32.0 ON MAY 23	0.275B ON JAN 04	138 000	1978
1979	30.7 AT 12:00 PST ON MAY 07	29.7 ON MAY 08	0.054B ON NOV 30	87 500	1979
1980	16.7 AT 15:12 PST ON MAY 08	16.2 ON MAY 08	0.085B ON JAN 10	85 700	1980
1981	28.7 AT 14:40 PST ON MAY 27	28.5 ON MAY 27	0.560B ON FEB 10	129 000	1981
1982	40.4 AT 23:18 PST ON MAY 26	39.3 ON MAY 26	0.630B ON JAN 05	176 000	1982
1983	---	49.2E ON MAY 27	0.719 ON OCT 27	179 000	1983
1984	39.9 AT 12:19 PST ON JUN 16	37.6 ON JUN 16	0.280B ON DEC 31	156 000	1984
1985	30.0 AT 12:02 PST ON MAY 25	29.0 ON MAY 26	0.081 ON SEP 04	85 000	1985
1986	31.2 AT 04:06 PST ON MAY 31	30.9 ON MAY 31	0.224B ON JAN 03	114 000	1986
1987	21.1 AT 13:20 PST ON MAY 03	21.0 ON MAY 03	0.011 ON OCT 30 *	77 800	1987
1988	---	18.0E ON MAY 12	0.027B ON JAN 05	49 400	1988
1989	21.0 AT 11:20 PST ON MAY 11	19.5 ON MAY 10	0.260B ON FEB 02	110 000	1989
1990	37.6 AT 11:40 PST ON JUN 15	36.2 ON JUN 15	0.235 ON OCT 26	164 000	1990
				122 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NICOLA RIVER AT NICOLA - STATION NO. 08LG013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	8.76	26.2	11.0	2.81	---	---	---	---	---	1913
1915	---	---	0.968	1.66	9.20	15.1	7.07	3.64	1.24	0.760	0.673	0.774	---	1915
1916	0.566	1.09	2.09	4.56	16.5	26.4	10.4	6.35	1.88	0.821	0.510	0.382	6.93	1916
1917	0.425	0.616	0.867	1.32	8.37	29.9	11.9	2.22	0.555	---	---	---	---	1917
1919	---	---	---	---	---	---	7.14	1.70	0.631	0.301	0.287	0.283	---	1919
1920	0.225	---	0.871	1.65	5.28	16.4	12.7	3.20	0.889	0.601	0.646	0.791	---	1920
1921	---	1.29	1.62	1.58	8.90	29.0	10.2	---	---	---	---	---	---	1921
1933	---	---	---	---	---	28.3	13.2	3.71	1.06	0.693	1.28	1.86	---	1933
1934	---	---	---	---	---	---	3.08	0.796	0.341	0.277	0.290	0.318	---	1934
1935	0.576	1.96	1.55	1.28	4.75	21.1	16.0	7.85	2.98	1.12	0.791	0.847	5.08	1935
1936	1.05	1.11	2.89	5.11	19.8	18.3	7.94	1.55	0.265	---	---	---	---	1936
1947	---	---	---	---	8.56	5.52	3.09	1.27	1.16	---	---	---	---	1947
1948	---	---	---	---	19.1	41.7	13.9	8.31	6.45	---	---	---	---	1948
1949	---	---	---	---	25.0	18.4	5.30	1.58	0.425	---	---	---	---	1949
1950	---	---	---	---	12.8	33.1	9.45	1.79	0.936	---	---	---	---	1950
1951	---	---	---	7.49	27.6	24.5	3.47	2.20	1.49	---	---	---	---	1951
MEAN	0.568	1.37	1.98	3.06	13.4	23.8	9.62	3.26	1.46	0.653	0.640	0.751	6.01	MEAN

LOCATION - LAT 50 09 48 N DRAINAGE AREA, 2 900 km^2
LONG 120 39 57 W REGULATED

NICOLA RIVER AT NICOLA - STATION NO. 08LG013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	36.8 ON JUN 08	---	---	1913
15	---	22.9 ON MAY 29	0.566 ON OCT 17	---	1915
16	---	48.9 ON JUN 13	0.368 ON DEC 09	219 000	1916
1917	---	33.4 ON JUN 10	0.311 ON SEP 24	---	1917
1919	---	---	0.283 ON SEP 19	---	1919
1920	---	30.6 ON JUN 23	0.170 ON JAN 15	---	1920
1921	---	32.0 ON JUN 05	---	---	1921
1933	---	---	0.532 ON OCT 14	---	1933
1934	---	---	0.268 ON SEP 28	---	1934
1935	---	25.8 ON JUN 11	0.328 ON JAN 01	160 000	1935
1936	---	22.8 ON MAY 25	0.099 ON SEP 20 *	---	1936
1947	---	11.1 ON MAY 22	0.566 ON SEP 12	---	1947
1948	---	46.2 ON JUN 03 *	1.16 ON APR 20	---	1948
1949	---	36.2 ON MAY 24	0.340 ON AUG 12	---	1949
1950	---	37.9 ON JUN 17	0.765 ON SEP 23	---	1950
1951	---	43.3 ON MAY 29	1.40 ON SEP 11	---	1951
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		190 000	MEAN

NICOLA RIVER AT OUTLET OF NICOLA LAKE - STATION NO. 08LG065

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	2.09	2.09	2.86	3.63	24.6	32.9	6.65	2.64	2.19	1.81	2.02	2.70	6.38	1983
1984	2.89	2.43	2.18	3.01	9.84	33.7	11.1	2.79	1.78	1.23	1.08	0.992	6.07	1984
1985	0.909	0.963	1.21	1.48	9.23	16.9	3.83	1.28	0.884	0.503	0.387	0.334	3.16	1985
1986	---	---	---	---	---	---	5.02	3.46	2.87	1.76	1.04	0.528	2.62	1986
1987	1.17	1.18	1.22	1.57	13.8	4.30	2.01	1.53	1.71	1.48	1.04	0.728	2.78	1987
1988	0.064	0.321	0.621	0.567	1.28	1.77	1.63	1.44	1.06	1.25	1.43	1.13	1.18	1988
1989	0.905	0.880	1.03	2.69	7.37	11.8	5.37	4.54	3.81	2.73	2.43	2.35	3.84	1989
1990	2.16	2.15	2.11	2.69	11.4	38.1	11.4	2.98	2.39	1.74	1.64	1.56	6.68	1990
MEAN	1.46	1.43	1.59	2.23	11.1	18.5	5.88	2.83	2.19	1.56	1.43	1.36	4.27	MEAN

LOCATION - LAT 50 09 42 N LONG 120 39 51 W
DRAINAGE AREA, 2 990 km^2
REGULATED SINCE 1986

NICOLA RIVER AT OUTLET OF NICOLA LAKE - STATION NO. 08LG065

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	40.9 AT 12:38 PST ON JUN 03	40.1 ON JUN 01	1.56 ON NOV 01	201 000	1983
1984	43.1 AT 16:15 PST ON JUN 18	41.8 ON JUN 17	0.860B ON DEC 31	192 000	1984
1985	27.4 AT 14:03 PST ON JUN 03	25.3 ON JUN 02	0.284B ON NOV 29	99 700	1985
1986	---	---	---	---	1986
1987	22.0 AT 11:34 PST ON MAY 13	21.8 ON MAY 13	0.120B ON DEC 31	82 600	1987
1988	4.69 AT 14:34 PST ON MAY 23	3.90 ON MAY 21	0.036B ON JAN 13 *	16 200	1988
1989	17.9 AT 10:05 PST ON JUN 07	17.7 ON JUN 07	0.813 ON FEB 23	121 000	1989
1990	45.4 AT 12:39 PST ON JUN 15 *	43.5 ON JUN 21 *	1.37 E ON DEC 30	211 000	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		135 000	MEAN

NICOLA RIVER NEAR DOUGLAS LAKE - STATION NO. 08LG028

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	10.0	1.80	0.165	0.013	0.001	---	---	---	1929
1930	---	---	---	2.65	6.77	8.90	1.79	0.273	0.028	---	---	---	---	1930
1947	---	---	---	---	10.4	6.83	---	---	---	---	---	---	---	1947
MEAN	---	---	---	2.65	8.59	8.58	1.80	0.219	0.021	0.001	---	---	---	MEAN

LOCATION - LAT 50 08 24 N LONG 120 16 51 W
DRAINAGE AREA, 1 300 km^2
REGULATED

NICOLA RIVER NEAR DOUGLAS LAKE - STATION NO. 08LG028

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
29	---	13.5 ON JUN 11 *	0 ON OCT 06 *	---	1929
1930	---	12.5 ON JUN 04	0 ON SEP 20	---	1930
1947	---	12.7 ON MAY 11	---	---	1947
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

NICOLA RIVER NEAR LOWER NICOLA - STATION NO. 08LG047

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	---	76.4	138	72.0	---	---	---	---	---	---	1955
MEAN	---	---	---	---	76.4	138	72.0	---	---	---	---	---	---	MEAN

LOCATION - LAT 50 08 20 N
LONG 120 56 20 W REGULATED

NICOLA RIVER NEAR LOWER NICOLA - STATION NO. 08LG047

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	198 ON JUN 12 *	---	---	1955
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

NICOLA RIVER NEAR MERRITT - STATION NO. 08LG007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	19.2	7.85	5.22	2.64	2.42	2.41	---	1911
1912	3.59	4.78	4.45	10.4	42.5	35.6	14.5	4.68	3.39	1.77	2.70	1.87	10.8	1912
1913	0.923	2.46	2.38	7.26	37.4	49.9	14.3	4.18	3.10	4.27	2.74	1.01	10.8	1913
1914	5.23	2.91	5.12	25.5	66.8	48.1	14.5	2.76	1.90	1.95	---	---	---	1914
1915	---	---	---	20.3	26.4	24.0	11.1	4.42	1.56	---	---	---	---	1915
1957	---	---	---	---	---	---	---	---	---	---	---	3.18	---	1957
1958	3.50	3.65	4.67	10.5	46.2	33.3	7.75	2.60	2.43	4.29	5.68	10.4	12.1	1958
1959	7.37	4.43	5.81	14.4	58.1	78.3	27.6	6.48	6.33	11.1	12.7	10.9	20.1	1959
1960	5.23	5.18	8.17	23.2	41.3	38.8	8.94	2.72	1.91	3.10	3.02	1.85	11.9	1960
1961	3.46	5.18	4.52	13.0	52.5	59.1	10.1	2.90	2.04	4.72	3.00	2.47	13.6	1961
1962	5.58	9.86	4.43	13.9	35.8	53.9	17.4	5.26	3.19	3.47	7.17	7.27	13.9	1962
1963	3.35	13.7	7.44	9.13	28.4	27.3	13.5	6.47	4.19	6.02	7.05	8.49	11.2	1963
1964	7.19	5.71	5.13	10.1	33.6	82.3	35.1	8.78	7.61	8.26	6.03	5.40	17.9	1964
1965	4.71	8.05	7.83	16.2	40.0	45.6	12.9	6.57	2.50	4.36	6.46	4.60	13.3	1965
1966	4.32	3.46	4.09	15.4	42.1	55.1	16.2	5.08	2.40	4.86	4.43	9.00	11.3	1966
1967	5.64	4.32	3.63	4.67	38.4	58.4	17.4	3.84	1.76	6.66	11.7	5.74	16.8	1967
1968	10.3	14.6	10.7	8.89	46.6	76.6	24.3	5.12	4.87	5.74	5.83	3.81	18.2	1968
1969	2.35	4.55	6.73	12.2	68.0	41.6	11.4	5.01	4.31	5.79	4.55	3.55	14.1	1969
1970	2.97	3.12	3.91	5.85	35.2	43.4	8.52	3.62	2.69	2.55	1.61	1.33	9.57	1970
1971	5.62	8.05	4.06	10.1	84.5	90.7	33.3	5.30	2.77	2.98	3.45	2.94	21.2	1971
1972	2.32	2.57	15.0	23.0	87.6	95.6	47.1	13.1	5.32	2.90	0.843	1.90	24.8	1972
1974	4.25	4.84	6.36	19.5	62.1	90.8	41.5	10.4	4.14	3.24	3.59	3.57	21.2	1974
1975	2.85	3.26	4.44	8.70	40.5	64.2	22.8	6.00	3.32	4.29	12.1	9.71	15.2	1975
1976	6.51	5.57	4.35	8.48	41.3	46.0	25.3	11.4	12.3	5.65	5.55	3.75	14.8	1976
1977	3.54	3.37	4.03	9.26	21.2	20.0	5.24	4.19	4.04	4.49	4.69	3.89	7.15	1977
1978	2.57	2.42	6.25	15.0	46.2	30.5	12.4	3.90	4.12	4.80	7.50	3.50	13.4	1978
1979	3.03	3.46	6.24	7.77	37.9	25.3	6.56	2.55	2.38	2.18	1.81	6.85	8.87	1979
1980	2.21	2.56	4.25	14.7	31.1	30.5	8.40	3.80	4.97	4.04	5.98	20.2	11.1	1980
1981	10.9	4.56	4.45	11.1	47.8	38.2	19.9	6.57	4.21	5.76	6.18	4.80	13.7	1981
1982	5.29	4.96	5.61	8.72	46.5	66.1	28.3	10.3	5.01	5.32	4.11	4.47	16.2	1982
1983	3.68	4.85	8.64	15.1	61.2	41.2	14.5	4.30	4.07	3.32	6.68	4.23	14.6	1983
1984	14.4	5.79	5.95	8.57	19.7	61.8	18.7	4.80	3.71	4.17	3.49	2.53	12.8	1984
1985	2.57	3.05	3.34	11.4	36.7	38.0	7.18	2.04	2.31	4.27	3.61	1.44	9.67	1985
1986	5.75	5.28	13.6	13.5	33.4	41.7	11.3	7.34	4.75	4.60	5.02	3.56	12.4	1986
1987	4.14	3.96	7.82	17.4	47.8	19.6	5.75	2.73	2.52	2.02	2.07	1.24	9.82	1987
1988	0.996	1.66	2.43	13.1	25.2	19.0	6.88	2.50	2.61	4.40	6.77	6.77	7.15	1988
1989	3.36	3.58	3.99	14.3	36.8	33.2	9.54	7.33	5.53	5.81	12.1	10.4	12.2	1989
1990	5.13	3.48	5.33	19.7	33.1	67.7	20.6	4.63	4.12	9.48	25.9	9.33	17.4	1990
MEAN	4.60	5.14	5.97	13.0	43.7	50.3	17.0	5.44	3.83	4.54	5.96	5.16	13.8	MEAN

LOCATION - LAT 50 08 40 N DRAINAGE AREA, 4 350 km^2
LONG 120 53 06 W REGULATED

NICOLA RIVER NEAR MERRITT - STATION NO. 08LG007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1911	---	---	1.13 ON NOV 13	---	1911
1912	---	73.1 ON MAY 21	1.13 ON SEP 20	341 000	1912
1913	---	117 ON JUN 03	0.142 ON DEC 12 *	342 000	1913
1914	---	107 ON MAY 14	0.963 ON SEP 01	---	1914
1915	---	35.7 ON MAY 28	1.19 ON SEP 27	---	1915
1957	---	---	---	---	1957
1958	---	78.7 ON MAY 25	1.64 ON OCT 05	380 000	1958
1959	---	98.3 ON JUN 03	3.48 ON JAN 31	633 000	1959
1960	---	81.3 ON JUN 03	0.991 ON AUG 29	377 000	1960
1961	---	99.7 ON JUN 04	1.42 ON SEP 15	428 000	1961
1962	---	83.3 ON MAY 26	1.21 ON SEP 29	438 000	1962
1963	---	66.5 ON MAY 23	2.17 B ON JAN 23	353 000	1963
1964	---	104 ON JUN 11	2.35 ON DEC 16	566 000	1964
1965	---	82.4 ON MAY 29	1.70 ON OCT 01	420 000	1965
1966	---	95.5 ON MAY 09	2.21 ON SEP 06	357 000	1966
1967	---	161 ON JUN 03 *	1.49 ON SEP 19	529 000	1967
1968	---	104 ON JUN 03	1.86 ON JAN 17	576 000	1968
1969	---	106 ON MAY 11	1.93 ON AUG 30	444 000	1969
1970	---	94.9 ON JUN 06	1.26 B ON DEC 21	302 000	1970
1971	---	130 ON MAY 13	1.36 B ON JAN 01	668 000	1971
1972	---	139 ON MAY 30	0.716 ON DEC 03	785 000	1972
1974	---	113 ON JUN 18	2.21 B ON JAN 11	670 000	1974
1975	---	124 E ON JUN 03	2.27 B ON JAN 14	480 000	1975
1976	76.7 AT 11:00 PST ON JUN 19	69.4 ON JUN 19	2.83 B ON DEC 16	469 000	1976
1977	45.3 AT 05:00 PST ON JUN 08	38.2 ON JUN 07	1.13 B ON NOV 24	225 000	1977
1978	98.5 AT 06:12 PST ON JUN 05	88.9 ON JUN 05	1.39 B ON JAN 01	421 000	1978
1979	59.7 AT 09:00 PST ON MAY 26	56.6 ON MAY 26	1.18 ON NOV 30	280 000	1979
1980	152 AT 04:09 PST ON DEC 27 *	136 ON DEC 27	1.33 B ON JAN 28	350 000	1980
1981	75.3 AT 01:00 PST ON MAY 26	70.8 ON MAY 25	3.05 ON SEP 19	432 000	1981
1982	99.1 AT 05:32 PST ON MAY 26	91.0 ON MAY 26	2.65 B ON NOV 22	510 000	1982
1983	109 AT 06:17 PST ON MAY 30	99.0 ON MAY 30	2.67 ON OCT 19	461 000	1983
1984	115 AT 02:15 PST ON JAN 05	94.3 ON JUN 15	1.60 B ON DEC 30	403 000	1984
1985	74.5 AT 09:55 PST ON MAY 24	69.6 ON MAY 24	1.02 B ON NOV 27	305 000	1985
1986	---	101 A ON MAY 27	1.50 B ON FEB 20	386 000	1986
1987	97.2 AT 15:29 PST ON MAY 12	84.9 ON MAY 12	0.977B ON DEC 31	310 000	1987
1988	68.1 AT 15:05 PST ON MAY 13	61.8 ON MAY 13	0.552B ON JAN 06	235 000	1988
1989	71.4 AT 06:36 PST ON JUN 02	65.3 ON JUN 02	2.30 B ON FEB 04	384 000	1989
1990	146 AT 08:00 PST ON NOV 11	111 ON NOV 11	2.50 B ON FEB 17	547 000	1990
				436 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NICOLA RIVER NEAR SPENCES BRIDGE — STATION NO. 08LG006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	15.4	9.50	5.64	6.44	---	---	1911
1912	---	---	---	---	93.1	65.8	22.6	11.1	---	6.92	8.68	---	---	1912
1913	---	---	---	---	---	103	36.9	11.4	17.1	12.6	12.4	---	---	1913
1914	---	---	---	---	---	---	---	---	---	---	---	---	---	1914
1915	---	---	---	56.1	62.3	42.7	23.8	10.6	6.05	---	---	---	---	1915
1916	---	---	---	46.7	136	161	41.0	19.5	7.92	7.16	4.75	3.52	---	1916
1917	---	---	---	7.49	67.2	130	49.5	9.33	4.60	4.76	9.23	---	---	1917
1918	---	---	---	34.1	87.0	92.9	24.2	6.62	4.08	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	3.53	2.83	2.83	---	1919
1920	4.25	5.66	---	---	---	---	---	---	---	---	---	---	---	1920
1957	---	---	---	---	---	---	---	7.48	4.97	4.53	5.58	6.73	---	1957
1958	7.59	8.30	10.8	23.4	121	49.7	11.3	3.69	4.13	7.91	11.5	18.0	23.2	1958
1959	14.4	9.55	10.8	29.3	109	136	42.6	9.06	9.48	19.0	21.0	16.5	35.6	1959
1960	---	---	---	44.1	72.7	76.9	19.6	5.54	4.55	7.91	6.89	4.81	---	1960
1961	5.54	14.6	11.5	30.2	108	99.1	18.3	5.20	4.93	11.5	7.60	4.31	26.8	1961
1962	8.96	16.1	8.13	31.2	67.1	84.0	28.2	9.76	7.51	---	---	---	---	1962
1963	---	32.2	16.7	22.7	70.2	53.2	20.5	9.33	5.28	10.6	22.9	19.0	---	1963
1964	15.6	11.8	10.3	20.5	73.6	147	54.8	13.2	13.6	15.8	12.3	9.54	33.1	1964
1965	7.53	11.3	12.9	30.7	92.0	86.5	20.8	8.21	4.36	5.76	19.2	8.81	25.7	1965
1966	6.23	4.64	8.58	36.1	80.3	78.9	31.9	9.90	4.70	9.23	9.27	11.6	24.7	1966
1967	10.2	10.0	8.66	19.1	87.2	132	27.4	7.01	3.58	8.87	21.1	11.6	28.3	1967
1968	22.6	21.5	32.3	45.4	112	137	44.5	10.2	8.50	10.7	12.8	8.63	37.3	1968
1969	7.70	13.6	13.0	30.1	139	72.3	22.4	7.10	7.27	10.2	10.6	7.45	28.5	1969
1970	4.38	4.77	7.65	13.1	70.8	72.6	11.2	3.89	3.76	4.01	4.26	2.36	16.9	1970
1971	6.36	11.5	9.94	24.7	188	131	53.5	10.0	5.42	6.53	6.62	4.67	38.4	1971
1972	3.61	6.13	32.9	34.2	167	192	69.6	15.5	6.69	7.12	7.95	4.98	45.7	1972
1973	5.23	6.79	6.18	12.0	62.2	67.8	14.4	4.05	2.87	6.43	6.20	6.03	18.1	1973
1974	8.95	10.1	15.4	45.0	142	213	74.5	16.6	5.81	5.26	5.54	5.58	45.7	1974
1975	4.66	4.17	5.88	14.1	104	163	46.5	8.64	5.33	9.34	30.9	21.2	34.8	1975
1976	14.1	12.0	8.42	19.1	101	93.0	54.1	25.1	19.5	7.45	7.48	7.50	30.8	1976
1977	5.96	9.74	7.38	22.2	47.8	42.1	9.60	4.33	3.49	4.72	10.3	9.06	14.7	1977
1978	5.61	4.75	14.5	37.3	89.4	106	22.4	5.07	7.87	7.84	12.8	5.46	27.4	1978
1979	5.82	6.66	9.50	13.8	63.9	40.8	9.89	3.25	3.43	3.59	3.31	15.2	15.0	1979
1980	5.64	6.03	9.29	36.9	77.1	61.1	16.1	5.98	7.61	6.83	12.4	39.6	23.7	1980
1981	23.0	15.5	14.2	24.2	86.7	66.6	33.6	10.3	6.00	10.1	12.9	8.88	28.9	1981
1982	7.69	9.01	10.0	13.7	89.3	121	51.1	13.8	7.50	9.00	7.61	7.62	29.0	1982
1983	9.74	10.5	16.9	33.7	118	89.8	24.0	7.52	7.29	7.00	14.0	6.66	27.2	1983
1984	27.0	9.85	11.0	15.7	36.3	106	28.3	6.66	5.35	7.07	5.88	4.43	21.9	1984
1985	3.99	5.12	5.80	25.6	82.7	64.9	10.9	3.14	3.90	7.41	6.15	2.45	18.5	1985
1986	5.71	11.8	27.7	28.5	73.8	74.1	19.1	10.4	7.29	7.68	8.38	6.80	23.4	1986
1987	8.68	7.67	17.4	37.9	92.3	38.7	10.0	4.01	3.54	3.16	3.33	2.72	19.2	1987
1988	1.92	2.95	4.34	30.1	89.1	41.9	12.1	4.34	4.17	7.60	12.6	6.46	15.6	1988
1989	5.93	6.10	7.35	30.1	77.2	60.9	14.2	10.2	7.70	9.21	21.5	19.6	22.6	1989
1990	8.57	5.53	8.61	42.5	59.9	96.6	29.3	6.97	6.40	16.8	53.6	17.7	29.3	1990
MEAN	8.92	9.94	12.3	27.9	91.5	93.6	30.4	9.01	6.58	8.10	11.8	9.77	26.8	MEAN

LOCATION - LAT 50 19 47 N
LONG 121 13 32 W

DRAINAGE AREA, 7 280 km²
REGULATED

NICOLA RIVER NEAR SPENCES BRIDGE - STATION NO. 08LG006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1911	---	---	---	---	1911
1912	---	---	---	---	1912
1913	---	131 ON MAY 22	---	---	1913
1914	---	174 ON MAY 25	---	---	1914
3	---	219 ON MAY 14	---	---	
4			---	---	1915
1915	---	93.4 ON APR 20	---	---	1916
1916	---	228 ON JUN 13	3.11E ON DEC 24	---	1917
1917	---	210 ON JUN 09	---	---	1918
1918	---	159 ON JUN 10	3.11 ON SEP 21	---	1919
1919	---	255 ON MAY 26	2.83E ON NOV 01	---	
1920	---	94.6 ON JUN 16	---	---	1920
1957	---	---	---	---	1957
1958	---	---	---	733 000	1958
1959	---	175 ON MAY 09	2.72 ON SEP 15	1 120 000	1959
	---	223 ON JUN 03	4.70 ON SEP 04	---	
1960	---	165 ON JUN 03	2.80B ON DEC 06	844 000	1960
1961	---	201 ON JUN 04	2.44B ON JAN 23	---	1961
1962	---	156 ON MAY 26	---	---	1962
1963	---	155 ON NOV 27	4.11 ON OCT 04	---	1963
1964	---	166 ON JUN 09	3.40 ON DEC 17	1 050 000	1964
1965	---	195 ON JUN 09	3.23E ON OCT 01	810 000	1965
1966	---	167 ON MAY 28	3.28 ON SEP 10	778 000	1966
1967	---	131 ON MAY 09	3.26 ON SEP 20	893 000	1967
1968	---	169 ON JUN 03	3.60 ON DEC 21	1 180 000	1968
1969	---	167 ON JUN 01	4.11B ON JAN 29	900 000	1969
1970	---	168 ON MAY 26	1.98B ON DEC 21	534 000	1970
1971	---	337 ON MAY 13 *	4.07B ON JAN 01	1 210 000	1971
1972	---	323 ON MAY 31	2.83B ON JAN 26	1 440 000	1972
1973	---	160 ON MAY 18	2.66 ON SEP 17	475 000	1973
1974	---	320 ON JUN 17	2.72 ON JAN 01	1 440 000	1974
1975	---	266 ON JUN 02	3.40B ON JAN 13	1 100 000	1975
1976	---	180 ON MAY 07	5.72 ON MAR 03	973 000	1976
1977	94.3 AT 07:27 PST ON JUN 08	88.3 ON JUN 07	2.36 ON SEP 15	484 000	1977
1978	226 AT 05:29 PST ON JUN 06	208 ON JUN 05	3.68B ON FEB 17	864 000	1978
1979	90.7 AT 03:31 PST ON MAY 25	87.3 ON MAY 26	2.55B ON NOV 11	473 000	1979
1980	305 AT 10:48 PST ON DEC 27 *	236 ON DEC 27	2.41B ON JAN 08	751 000	1980
1981	144 AT 03:10 PST ON MAY 15	141 ON MAY 15	4.60 ON SEP 19	878 000	1981
1982	201 AT 19:19 PST ON MAY 25	175 ON MAY 25	3.00B ON JAN 02	915 000	1982
1983	---	186 E ON MAY 30	5.51B ON DEC 26	848 000	1983
1984	231 AT 05:40 PST ON JAN 05	177 ON JUN 15	3.00B ON DEC 30	693 000	1984
1985	182 AT 02:15 PST ON MAY 20	168 ON MAY 19	1.64B ON NOV 27	585 000	1985
1986	226 AT 08:42 PST ON MAY 27	217 ON MAY 27	4.10B ON JAN 01	716 000	1986
1987	180 AT 15:00 PST ON MAY 12	169 ON MAY 12	1.60B ON DEC 31	605 000	1987
1988	159 AT 11:54 PST ON MAY 13	149 ON MAY 13	1.00B ON JAN 06 *	494 000	1988
1989	154 AT 07:33 PST ON MAY 07	147 ON MAY 07	3.90B ON JAN 08	712 000	1989
1990	251 AT 10:48 PST ON NOV 11	226 ON NOV 11	4.00B ON FEB 01	925 000	1990
				846 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NICOLUM CREEK NEAR HOPE - STATION NO. 08MF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	0.799	0.597	0.804	2.44	2.59	1.95	1.27	0.681	0.491	1.89	---	---	---	1915
1916	---	---	---	---	---	---	2.32	2.78	1.04	0.664	1.14	0.633	---	1916
1917	0.553	0.908	0.516	1.14	6.54	9.37	3.34	---	0.789	1.17	1.21	---	---	1917
1918	---	---	---	---	---	---	1.74	1.24	0.630	1.14	1.49	3.92	---	1918
1919	1.45	1.15	1.24	2.32	5.29	8.33	6.14	2.61	0.902	0.535	4.75	---	---	1919
*														
1920	---	---	---	1.73	6.40	---	6.76	1.87	2.51	4.85	1.93	1.55	---	1920
1921	1.99	3.77	2.31	2.19	5.44	8.39	3.89	1.61	1.79	---	---	---	---	1921
MEAN	1.20	1.61	1.22	1.96	5.25	7.01	4.78	1.80	1.16	1.71	2.10	2.03	---	MEAN

LOCATION - LAT 49 20 03 N
LONG 121 17 49 W

DRAINAGE AREA, 77.7 km^2
NATURAL FLOW

NICOLUM CREEK NEAR HOPE - STATION NO. 08MF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	4.76 ON OCT 30	0.425E ON FEB 12	---	1915
1916	---	15.3 ON JUN 18	---	---	1916
1917	---	13.9 ON MAY 28	0.481 ON JAN 01	---	1917
1918	---	14.2 ON JUN 11	0.340 ON AUG 28	---	1918
1919	---	11.8 ON JUN 20	0.311 ON OCT 26 *	---	1919
1920	---	10.9 ON MAY 15	---	---	1920
1921	---	19.8 ON FEB 09 *	---	---	1921
				---	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

QUESNEL RIVER NEAR QUESNEL - STATION NO. 08KH006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1939	---	634 ON MAY 19	---	---	1939
1940	---	535 ON JUN 16	---	---	1940
41	---	467 ON JUL 03	---	---	1941
42	---	606 ON JUN 09	39.9 ON MAR 24	5 890 000	1942
1943	---	748 ON JUN 23	33.4 ON DEC 31	---	1943
1944	---	600 ON JUN 03	---	---	1944
1945	---	583 ON JUN 10	---	---	1945
1946	---	736 ON MAY 29	43.9B ON DEC 16	5 990 000	1946
1947	---	691 ON JUN 11	42.6B ON FEB 16	6 680 000	1947
1948	---	1 090 ON MAY 31	42.3 ON MAR 31	8 750 000	1948
1949	---	631 ON JUN 08	41.9B ON MAR 11	7 110 000	1949
1950	---	903 ON JUN 22	44.5B ON MAR 25	6 870 000	1950
1951	---	612 ON MAY 25	43.6B ON MAR 08	5 910 000	1951
1952	---	691 ON MAY 29	39.6B ON FEB 21	6 640 000	1952
1953	---	614 ON JUN 19	37.7B ON FEB 16	6 620 000	1953
1954	---	725 ON JUN 15	44.7 ON APR 12	7 840 000	1954
1955	---	1 140 ON JUN 29	50.4B ON MAR 31	7 290 000	1955
1956	---	801 ON JUN 22	27.6B ON MAR 20 *	6 840 000	1956
1957	---	875 ON MAY 14	---	---	1957
1958	---	756 ON MAY 11	65.4 ON DEC 30	6 810 000	1958
1959	---	631 ON JUN 23	35.7B ON MAR 29	7 700 000	1959
1960	---	675 ON JUL 02	52.4 ON MAR 17	8 490 000	1960
1961	---	818 ON JUN 28	54.1 ON MAR 12	6 540 000	1961
1962	---	767 ON JUN 28	55.4 ON MAR 28	8 810 000	1962
1963	---	657 ON JUN 20	76.5 ON DEC 28	7 690 000	1963
1964	---	977 ON JUN 19	48.7 ON MAR 24	8 670 000	1964
1965	---	816 ON JUN 12	60.9B ON APR 01	7 760 000	1965
1966	---	719 ON JUN 23	44.5 ON MAR 20	7 520 000	1966
1967	---	1 000 ON JUN 23	53.0 ON APR 03	8 190 000	1967
1968	---	793 ON JUN 23	58.9B ON DEC 31	8 730 000	1968
1969	---	561 ON JUN 13	38.2B ON MAR 26	7 320 000	1969
1970	---	770 ON JUN 07	46.4 ON MAR 17	6 120 000	1970
1971	---	787 ON JUN 30	52.1 ON APR 02	7 690 000	1971
1972	---	1 160 ON JUN 29 *	64.0 ON DEC 23	9 040 000	1972
1973	---	813 ON JUN 27	45.9 ON MAR 09	6 720 000	1973
1974	---	917 ON JUN 24	45.9 ON MAR 25	7 920 000	1974
1975	---	753 ON JUN 27	41.9B ON APR 09	7 370 000	1975
1976	---	869 ON JUN 22	55.0 ON MAR 04	9 680 000	1976
1977	---	665 ON JUN 15	68.0B ON DEC 31	7 440 000	1977
1978	---	535 ON JUN 16	42.2 ON MAR 16	6 430 000	1978
1979	---	785 ON JUN 07	51.0B ON FEB 25	6 370 000	1979
1980	---	540 ON MAY 24	32.6B ON FEB 24	6 910 000	1980
1981	---	728 ON MAY 28	60.0 ON DEC 29	7 320 000	1981
1982	---	1 010 ON JUN 11	50.4B ON APR 10	9 820 000	1982
1983	---	840 ON JUN 18	56.4 ON FEB 10	9 480 000	1983
1984	---	751 ON JUN 28	68.3 ON MAR 11	7 680 000	1984
1985	---	1 020 ON JUN 06	54.0B ON FEB 09	7 760 000	1985
1986	---	935 ON JUN 23	45.2B ON FEB 23	7 220 000	1986
1987	---	857 ON JUN 12	60.0B ON DEC 31	6 180 000	1987
1988	---	715 ON MAY 16	49.0B ON FEB 21	7 000 000	1988
1989	---	683 ON JUN 16	51.6B ON MAR 23	6 885 000	1989
1990	---	967 ON JUN 24	72.8B ON FEB 22	8 570 000	1990
				7 420 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

QUILCHENA CREEK AT QUILCHENA - STATION NO. 08LG017

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	---	---	---	4.39	0.926	0.084	0.120	0.366	1.04	---	---	1933
1965	---	---	---	---	2.78	3.12	0.343	0.483	0.318	---	---	---	---	1965
1966	---	---	---	1.46	2.83	0.737	0.565	0.177	0.169	---	---	---	---	1966
1967	---	---	---	---	3.59	6.63	0.350	0.170	0.082	---	---	---	---	1967
1968	---	---	---	---	3.09	8.26	0.770	0.117	0.209	---	---	---	---	1968
1969	---	---	---	---	2.14	---	---	---	0.283	---	---	---	---	1969
1970	---	---	---	0.372	0.613	0.557	0.034	0.003	0.012	---	---	---	---	1970
1971	---	---	---	0.577	2.88	4.58	0.807	0.021	0.039	---	---	---	---	1971
1972	---	---	---	2.30	8.39	9.80	1.66	0.432	0.264	---	---	---	---	1972
1973	---	---	---	0.676	3.97	0.970	0.089	0.006	0.010	---	---	---	---	1973
1974	---	---	---	0.943	3.28	7.06	0.570	0.239	0.362	0.419	---	---	---	1974
1975	---	---	---	0.783	2.27	5.41	0.568	0.262	0.242	---	---	---	---	1975
MEAN	---	---	---	1.02	3.17	4.68	0.607	0.181	0.177	0.393	1.04	---	---	MEAN

LOCATION - LAT. 50 09 15 N DRAINAGE AREA, 787 km²
LONG 120 30 05 W REGULATED

QUILCHENA CREEK AT QUILCHENA - STATION NO. 08LG017

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	7.39 ON JUN 08	0.042 ON AUG 19	---	1933
1965	---	---	---	---	1965
1966	---	3.40 ON MAY 15	0.048 ON SEP 09	---	1966
1967	---	14.6 ON JUN 08	0.051 ON SEP 07	---	1967
1968	---	18.1 ON JUN 11 *	0.054 ON AUG 30	---	1968
1969	---	7.67 ON MAY 19	0.054 ON AUG 29	---	1969
1970	---	1.36 ON MAY 21	0 ON JUL 17 *	---	1970
1971	---	8.34 ON JUN 06	0.004 ON AUG 16	---	1971
1972	---	16.8 ON JUN 07	0.045 ON SEP 11	---	1972
1973	---	3.20 ON MAY 23	0.051 ON AUG 15	---	1973
1974	---	10.8 E ON JUN 18	0.059 ON JUL 30	---	1974
1975	---	---	---	---	1975
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

QUINN CREEK NEAR CASTLEDALE - STATION NO. 08HA020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1930	---	---	---	---	---	0.100	0.027	0.012	0.010	---	---	---	---	1930
1931	---	---	---	---	---	---	0.022	0.008	0.008	---	---	---	---	1931
MEAN	---	---	---	---	---	0.100	0.025	0.010	0.009	---	---	---	---	MEAN

LOCATION - LAT 51 02 32 N, LONG 116 32 28 W DRAINAGE AREA, 6.48 km^2, NATURAL FLOW

QUINN CREEK NEAR CASTLEDALE - STATION NO. 08HA020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1930	---	0.210 ON MAY 31 *	---	---	1930
1931	---	0.139 ON JUN 18	---	---	1931
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

QUINSAM RIVER NEAR CAMPBELL RIVER - STATION NO. 08HD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	---	---	---	---	1956
1957	7.54	6.60	12.2	11.9	8.32	5.85	2.85	1.63	1.32	2.82	12.8	17.0	---	1957
1958	21.1	23.1	18.7	9.85	9.17	5.69	3.66	1.84	2.04	2.49	4.36	14.5	8.78	1958
1959	20.9	7.96	10.6	7.72	9.51	6.99	3.85	2.73	2.37	4.63	8.91	14.5	8.33	1959
1960	8.82	10.1	5.71	9.79	7.09	6.81	3.50	1.83	1.82	3.32	9.73	16.6	7.82	1960
1961	10.7	17.8	24.4	12.2	12.7	5.82	3.43	1.92	1.39	3.45	7.03	13.1	11.6	1961
1962	15.2	16.9	17.84	8.63	8.77	5.97	3.06	1.92	1.55	3.14	27.0	16.4	10.4	1962
1963	15.1	14.9	8.33	5.22	6.16	5.08	4.54	3.16	3.07	4.29	5.17	8.55	7.29	1963
1964	18.0	14.3	8.33	5.22	6.16	5.08	4.54	3.16	3.07	4.29	5.17	8.55	7.29	1964
1965	8.39	15.5	8.08	9.88	6.28	2.87	2.17	2.10	2.11	7.38	14.8	22.1	8.04	1965
1966	18.5	11.5	14.4	7.38	6.80	4.16	2.87	2.43	2.68	4.27	8.84	18.4	10.2	1966
1967	17.5	16.2	15.5	7.38	6.80	4.16	2.87	2.43	2.68	4.27	8.84	18.4	10.2	1967
1968	40.5	12.4	13.5	4.81	5.48	3.36	2.59	2.29	2.99	20.2	23.1	23.3	13.6	1968
1969	5.78	12.3	13.9	14.9	9.38	3.69	2.27	2.20	4.18	5.00	13.4	23.0	9.14	1969
1970	8.66	9.52	6.43	5.07	4.29	2.88	1.60	1.88	3.22	3.26	3.09	20.6	6.04	1970
1971	18.7	19.8	11.6	13.0	8.83	5.40	2.57	1.50	1.84	1.80	19.6	16.0	9.77	1971
1972	5.01	14.1	30.4	17.4	8.49	5.82	3.16	2.66	1.42	2.61	9.30	18.0	10.3	1972
1973	23.9	5.92	9.74	4.20	4.25	3.93	2.15	2.10	2.44	3.69	9.22	15.3	8.43	1973
1974	17.3	15.1	18.4	11.2	7.27	7.96	4.82	2.34	3.30	3.69	9.22	15.3	9.64	1974
1975	8.57	6.24	12.7	11.1	10.7	5.17	3.00	2.46	4.51	8.65	42.6	13.0	10.7	1975
1976	14.6	9.20	10.7	8.63	5.98	4.68	2.69	2.03	2.88	3.77	18.7	18.7	9.97	1976
1977	8.05	11.4	10.3	6.93	5.05	3.88	2.18	1.84	2.88	3.41	16.7	18.7	7.68	1977
1978	4.52	10.1	11.8	7.89	6.22	5.20	3.02	1.68	4.77	8.09	9.84	19.1	7.05	1978
1979	---	---	---	---	---	---	---	---	---	---	---	---	---	1979
1980	7.80	10.6	11.4	8.12	4.38	4.17	4.49	3.09	3.76	4.61	12.2	20.8	8.61	1980
1981	12.7	11.0	9.43	6.92	5.69	4.82	3.74	3.14	3.26	4.84	11.6	18.6	7.88	1981
1982	7.66	12.9	12.4	6.67	5.27	4.03	3.04	2.85	3.26	13.2	18.8	18.6	7.88	1982
1983	19.3	22.5	18.5	8.38	6.55	5.99	3.15	3.11	3.64	4.57	22.6	18.6	9.22	1983
1984	12.3	11.3	8.56	6.32	6.59	5.78	3.82	3.03	3.47	8.02	14.2	8.21	7.22	1984
1985	4.63	7.02	7.62	8.27	4.68	3.30	1.54	1.35	2.79	4.32	4.87	3.35	4.38	1985
1986	22.1	11.1	10.4	5.84	7.32	5.18	3.19	2.14	3.18	3.93	3.66	18.0	8.03	1986
1987	11.2	14.4	13.9	6.71	4.67	3.83	2.09	1.98	2.27	3.40	18.2	18.0	7.83	1987
1988	9.06	9.23	10.3	8.47	3.90	2.83	2.60	2.51	3.29	4.44	8.34	13.3	6.59	1988
1989	---	---	---	---	---	---	---	---	---	---	---	---	---	1989
1990	13.7	10.3	7.86	5.29	3.58	5.86	2.31	1.61	2.47	6.77	32.4	20.3	9.33	1990
MEAN	14.2	13.1	11.9	8.14	6.07	4.23	2.58	2.20	3.25	6.36	12.9	17.1	8.49	MEAN

LOCATION - LAT 50 01 43 N, LONG 125 17 55 W DRAINAGE AREA, 280 km^2, REGULATED

SPAHOMIN CREEK NEAR DOUGLAS LAKE - STATION NO. 08LG018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	---	---	---	---	1920
1921	---	---	---	0.351	1.65	4.86	---	0.064	0.058	---	---	---	---	1921
1924	---	---	---	---	2.35	1.71	---	---	---	---	---	---	---	1924
1925	---	---	---	---	---	---	---	---	---	---	---	---	---	1925
1926	---	---	---	---	1.06	0.737	0.300	0.115	0.103	---	---	---	---	1926
1927	---	---	---	0.045	0.584	2.70	1.55	0.293	0.248	---	---	---	---	1927
1928	---	---	---	---	---	---	---	---	---	---	---	---	---	1928
1929	---	---	---	0.255	0.391	1.08	0.543	0.098	0.009	---	---	---	---	1929
1930	---	---	---	---	---	---	---	---	---	---	---	---	---	1930
1967	---	---	---	---	---	---	---	---	0.058	---	---	---	---	1967
MEAN	---	---	---	0.217	1.21	2.22	0.798	0.143	0.095	---	---	---	---	MEAN

LOCATION - LAT 50 06 55 N LONG 120 17 10 W DRAINAGE AREA, 233 km² REGULATED

SPAHOMIN CREEK NEAR DOUGLAS LAKE - STATION NO. 08LG018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	3.06 ON JUN 18	0.028 ON SEP 14	---	1920
1921	---	6.12 ON JUN 03	0.003 ON SEP 19	---	1921
1924	---	6.80 ON MAY 27 *	---	---	1924
1925	---	---	0 ON APR 01 *	---	1925
1926	---	1.29 ON MAY 12	0.085 ON AUG 05	---	1926
1927	---	3.96 ON JUN 10	0 E ON APR 01	---	1927
1928	---	5.44 ON MAY 25	0.102 ON AUG 28	---	1928
1929	---	1.28 ON JUN 21	0.003 ON SEP 22	---	1929
1930	---	---	0.028 ON SEP 29	---	1930
1967	---	---	0.031E ON SEP 26	---	1967
	---	---	---	---	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SPAHOMIN CREEK NEAR THE MOUTH - STATION NO. 08LG060

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	1.25	3.71	2.18	0.688	0.358	0.212	0.225	0.225	---	1972
1973	0.158	0.266	0.355	0.326	0.668	1.23	0.710	0.154	0.055	0.044	0.038	0.040	0.339	1973
1974	0.140	0.221	0.281	0.387	1.25	4.62	2.27	0.610	0.136	0.048	0.056	0.055	0.831	1974
1975	0.090	0.134	0.256	0.325	0.777	3.17	1.64	0.516	0.229	0.080	0.065	0.088	0.614	1975
1976	0.171	0.208	0.290	0.304	1.89	3.59	2.02	0.750	0.298	0.186	0.186	0.923	1.07	1976
1977	0.195	0.255	0.271	0.380	1.24	1.10	0.676	0.255	0.044	0.041	0.048	0.063	0.371	1977
1978	0.085	0.133	0.316	0.411	1.35	2.99	1.34	0.319	0.284	0.175	0.234	0.222	0.655	1978
1979	0.241	0.293	0.295	0.352	1.51	1.45	0.781	0.137	0.077	0.067	0.064	0.023	0.442	1979
1980	0.043	0.077	0.190	0.267	2.02	2.43	1.22	0.371	0.246	0.089	0.081	0.074	0.593	1980
1981	0.182	0.249	0.339	0.315	1.17	3.08	2.01	1.03	0.325	0.133	0.105	0.121	0.792	1981
1982	0.207	0.271	0.346	0.378	1.66	2.96	2.79	1.11	0.294	0.127	0.089	0.116	0.821	1982
1983	0.221	0.307	0.345	0.373	1.69	3.21	1.45	0.543	0.258	0.123	0.131	0.228	0.741	1983
1984	0.490	0.424	0.481	0.563	0.968	4.14	1.95	0.484	0.147	0.056	0.132	0.135	0.829	1984
1985	0.219	0.205	0.232	0.427	1.26	2.35	0.636	0.094	0.061	0.064	0.069	0.102	0.476	1985
1986	0.184	0.227	0.301	0.356	0.843	2.44	1.16	0.389	0.176	0.119	0.142	0.164	0.542	1986
1987	0.228	0.187	0.264	0.318	2.73	1.37	0.626	0.175	0.047	0.008	0.011	0.008	0.502	1987
1988	0.010	0.040	0.061	0.180	0.552	0.870	0.855	0.365	0.143	0.066	0.075	0.060	0.274	1988
1989	0.116	0.088	0.196	0.277	1.70	2.35	1.27	0.750	0.652	0.199	0.127	0.176	0.661	1989
1990	0.394	0.349	0.417	0.649	1.97	4.91	1.46	0.616	0.278	0.104	0.127	0.254	0.960	1990
MEAN	0.187	0.218	0.291	0.366	1.38	2.74	1.42	0.510	0.239	0.110	0.106	0.123	0.631	MEAN

LOCATION - LAT 50 08 08 N LONG 120 16 30 W DRAINAGE AREA, 241 km² REGULATED

SPAHOMIN CREEK AT OUTLET OF PENNASK LAKE - STATION NO. 08LG020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	---	---	---	---	---	---	---	---	---	---	---	1933
1934	---	---	---	---	3.44	1.45	---	0.087	0	---	---	---	---	1934
1935	---	---	---	---	1.39	3.47	2.21	0.833	0.295	0.137	---	---	---	1935
1936	---	---	---	---	3.00	4.76	1.47	0.211	0.116	---	---	---	---	1936
1937	---	---	---	---	1.08	4.05	1.63	0.411	---	---	---	---	---	1937
1938	---	---	---	---	1.61	4.24	---	---	---	---	---	---	---	1938
1939	---	---	---	---	---	1.65	0.721	0.133	0.030	0.007	0.013	---	---	1939
1940	---	---	---	---	1.66	1.79	0.439	0.153	0.028	0.014	---	---	---	1940
1941	---	---	---	---	1.44	2.17	1.08	0.347	0.418	0.907	1.17	---	---	1941
1942	---	---	---	---	2.18	4.28	1.45	0.473	0.142	---	---	---	---	1942
1943	---	---	---	---	---	3.79	1.90	0.482	0.196	0.106	0.110	---	---	1943
1944	---	---	---	---	---	4.03	1.49	0.355	0.144	---	---	---	---	1944
1945	---	---	---	---	---	3.85	1.27	0.301	0.059	0.055	---	---	---	1945
1946	---	---	---	---	---	4.46	1.70	0.385	0.143	---	---	---	---	1946
1947	---	---	---	---	3.21	3.25	1.11	0.406	0.160	---	---	---	---	1947
1948	---	---	---	---	---	---	---	1.26	0.821	---	---	---	---	1948
1949	---	---	---	---	2.68	2.52	0.816	0.437	0.199	---	---	---	---	1949
1950	---	---	---	---	---	4.57	1.65	0.661	0.212	---	---	---	---	1950
1951	---	---	---	---	---	4.21	1.59	0.242	0.141	---	---	---	---	1951
1968	---	---	---	0.210	1.30	4.40	1.52	0.455	0.272	0.114	---	---	---	1968
1969	---	---	---	0.327	2.31	2.29	0.938	0.230	0.082	0.061	0.078	---	---	1969
1970	0.184	0.226	0.230	0.212	0.779	1.82	0.635	0.156	0.033	0.017	0.015	0.016	0.360	1970
1971	0.064	0.176	0.162	0.146	1.83	4.44	1.53	0.353	0.093	0.045	0.079	0.204	0.760	1971
1972	0.[illegible]	0.273	0.279	0.269	1.55	4.71	2.25	0.584	0.219	0.102	0.143	0.136	0.896	1972
1973	0.[illegible]	0.208	0.217	0.200	1.17	2.00	0.825	0.219	0.029	0	0.014	0.087	0.426	1973
1974	0.[illegible]	0.260	0.243	0.277	1.42	5.28	2.69	0.694	0.127	0.011	0.011	0.037	0.930	1974
MEAN	0.156	0.225	0.224	0.234	1.89	3.35	1.39	0.411	0.172	0.121	0.181	0.097	0.674	MEAN

LOCATION - LAT 50 01 41 N DRAINAGE AREA, 130 km²
LONG 120 07 06 W REGULATED

SPAHOMIN CREEK AT OUTLET OF PENNASK LAKE - STATION NO. 08LG020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	---	---	---	1933
1934	---	4.22 ON JUN 09 3.74 ON MAY 03	0.156 ON SEP 08 0 ON SEP 03 *	---	1934
1935	---	---	---	---	1935
1936	---	3.99 ON JUN 11 3.43 ON MAY 19	0.105 ON OCT 13 0.079 ON SEP 22	---	1936
1937	---	4.47 ON JUN 23	---	---	1937
1938	---	4.53 ON JUN 05	---	---	1938
1939	---	---	0 ON OCT 18	---	1939
1940	---	3.11 ON MAY 26	0.011 ON SEP 20	---	1940
1941	---	5.80 ON JUN 16	0.[illegible] ON AUG 22	---	1941
1942	---	5.10 ON JUN 03	0.[illegible] ON SEP 26	---	1942
1943	---	4.25 ON JUN 19	0.[illegible] ON OCT 08	---	1943
1944	---	4.42 ON JUN 08	0.091 ON SEP 27	---	1944
1945	---	4.87 ON JUN 08	0.028 ON NOV 06	---	1945
1946	---	5.38 ON MAY 29	0.056 ON SEP 30	---	1946
1947	---	4.25 ON MAY 29	0.[illegible] ON SEP 13	---	1947
1948	---	---	0.[illegible] ON SEP 29	---	1948
1949	---	4.67 ON MAY 25	0.156 ON SEP 18	---	1949
1950	---	5.66 ON JUN 16	0.102 ON SEP 29	---	1950
1951	---	4.64 ON MAY 24	0.082 ON SEP 24	---	1951
1968	5.66 AT 12:30 PST ON JUN 12	5.64 ON JUN 12	0.088 ON OCT 30	---	1968
1969	3.99 AT 14:54 PST ON MAY 26	3.96 ON MAY 27	0.054 ON OCT 17	---	1969
1970	2.53 AT 17:21 PST ON JUN 06	2.52 ON JUN 06	0.013 ON NOV 05	11 300	1970
1971	5.97 AT 13:45 PST ON JUN 06	5.80 ON JUN 05	0.021 B ON JAN 01	24 000	1971
1972	5.55 AT 12:35 PST ON JUN 11	5.52 ON JUN 11	0.088 ON OCT 21	28 300	1972
1973	2.89 AT 10:30 PST ON MAY 29	2.86 ON MAY 30	0 ON SEP 24	13 400	1973
1974	6.77 AT 15:47 PST ON JUN 20 *	6.71 ON JUN 21 *	0.008 ON OCT 22	29 300	1974
				21 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SPANKIN CREEK NEAR THE MOUTH - STATION NO. 08LG060

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	4.42 ON JUN 11	---	---	1972
1973	1.59 AT 06:00 PST ON JUN 03	1.51 ON JUN 03	0.028B ON NOV 05	10 700	1973
1974	7.99 AT 04:30 PST ON JUN 21	7.90 ON JUN 21 *	0.028B ON JAN 08	26 200	1974
1975	4.45 AT 12:00 PST ON JUN 10	3.96 ON JUN 10	0.048B ON DEC 13	19 300	1975
1976	4.76 AT 18:40 PST ON JUN 22	4.02 ON JUN 22	0.044 ON NOV 14	19 400	1976
1977	1.82 AT 11:30 PST ON MAY 17	1.74 ON MAY 18	0.044 ON SEP 04	11 700	1977
1978	3.82 AT 02:23 PST ON JUN 10	3.77 ON JUN 10	0.065B ON JAN 02	20 700	1978
1979	2.84 AT 05:55 PST ON MAY 27	2.69 ON MAY 27	0 ON OCT 04 *	13 900	1979
1980	3.40 AT 19:36 PST ON MAY 27	3.23 ON MAY 27	0.028B ON JAN 10	18 800	1980
1981	3.79 AT 08:45 PST ON JUN 04	3.59 ON JUN 04	0.068 ON NOV 06	17 800	1981
1982	3.65 AT 12:00 PST ON JUL 07	3.54 ON JUL 07	0.060B ON NOV 24	15 900	1982
1983	4.80 AT 09:00 PST ON JUN 03	4.70 ON JUN 03	0.065B ON JAN 03	23 400	1983
1984	5.34 AT 00:45 PST ON JUN 15	5.19 ON JUN 14	0.030 ON OCT 06	26 200	1984
1985	3.27 AT 09:47 PST ON JUN 01	3.22 ON JUN 01	0.042 ON SEP 03	15 000	1985
1986	4.30 AT 02:38 PST ON JUN 08	4.06 ON JUN 08	0.068 ON OCT 16	17 100	1986
1987	2.35 AT 20:00 PST ON MAY 19	2.16 ON MAY 20	0.0018 ON NOV 16	15 800	1987
1988	1.32 AT 05:40 PST ON JUL 06	1.22 ON JUL 05	0.003B ON JAN 01	8 660	1988
1989	5.85 AT 16:50 PST ON MAY 27	5.30 ON MAY 27	0.040B ON FEB 03	20 800	1989
1990	8.64 AT 15:37 PST ON JUN 03 *	7.58 ON JUN 04	0.049 ON NOV 02	30 300	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		19 900	MEAN

SPATSIZI RIVER NEAR THE MOUTH - STATION NO. 08CA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	---	---	70.3	92.9	32.7	11.9	---	1980
1981	9.44	7.89	6.81	8.15	154	224	177	72.9	65.6	44.4	12.7	8.29	66.2	1981
1982	5.98	5.86	4.56	5.18	41.9	246	118	50.8	66.8	44.5	16.7	10.5	49.3	1982
1983	7.97	6.88	5.76	5.30	49.0	256	143	69.5	65.8	31.8	11.4	8.29	54.3	1983
1984	4.97	4.13	4.85	7.60	45.6	210	161	126	80.0	52.0	15.4	8.02	60.5	1984
1985	7.47	5.40	5.38	6.44	76.9	190	247	75.5	55.9	35.1	12.8	8.52	60.9	1985
1986	6.39	4.47	4.71	5.54	44.2	210	201	61.5	35.8	80.5	28.4	11.7	58.2	1986
1987	10.4	7.51	6.50	6.15	87.8	216	226	64.4	66.4	81.4	22.1	11.6	64.6	1987
1988	8.67	6.60	5.96	7.81	140	223	161	93.6	47.5	43.3	16.2	9.85	62.9	1988
1989	8.36	7.95	8.40	11.7	118	193	134	84.9	42.9	42.1	20.0	12.9	57.9	1989
1990	9.80	7.58	7.76	10.5	141	288	117	49.5	36.5	25.0	14.7	11.2	60.0	1990
MEAN	7.95	6.43	5.97	7.25	88.1	229	168	74.9	56.3	51.7	18.9	10.8	60.0	MEAN

LOCATION - LAT 57 40 13 N, LONG 128 08 12 W. DRAINAGE AREA, 3 400 km^2. NATURAL FLOW

SPATSIZI RIVER NEAR THE MOUTH - STATION NO. 08CA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---	---	---	1980
1981	396 AT 13:10 PST ON MAY 27	391 ON MAY 27	5.60B ON APR 08 *	2 090 000	1981
1982	348 AT 23:42 PST ON JUN 12	328 ON JUN 12	3.01B ON APR 13 *	1 560 000	1982
1983	512 AT 15:20 PST ON JUN 03	493 ON JUN 03	4.32B ON APR 13	1 770 000	1983
1984	320 AT 23:39 PST ON JUN 10	305 ON JUN 11	3.95B ON FEB 13	1 910 000	1984
1985	445 AT 03:32 PST ON JUL 07	433 ON JUL 07	4.80B ON FEB 13	1 920 000	1985
1986	319 AT 21:19 PST ON JUN 01	304 ON JUN 02	5.07B ON FEB 12	1 840 000	1986
1987	478 AT 01:26 PST ON JUN 03	458 ON JUN 05	5.70B ON MAR 06	2 130 000	1987
1988	453 AT 06:30 PST ON JUN 12	442 ON JUN 12	5.46B ON MAR 09	1 990 000	1988
1989	308 AT 00:01 PST ON JUN 05	297 ON JUN 05	7.15B ON MAR 11	1 830 000	1989
1990	601 AT 02:10 PST ON JUN 02 *	585 ON JUN 02 *	7.20B ON FEB 17	1 890 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 890 000	MEAN

SPILL CREEK AT OUTLET OF SUMMIT LAKE - STATION NO. 08DA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	1969
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	1970
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	MEAN

LOCATION - LAT 56 14 18 N, LONG 130 04 24 W. DRAINAGE AREA, 120 km^2. NATURAL FLOW

MINISTRY OF ENVIRONMENT, LANDS & PARKS

Water Rights Information System

Summary Report (with legal descriptions and old coordinates)

Operator 38 SPINTO

1996/APR/04 09:08

WELL4600 Production

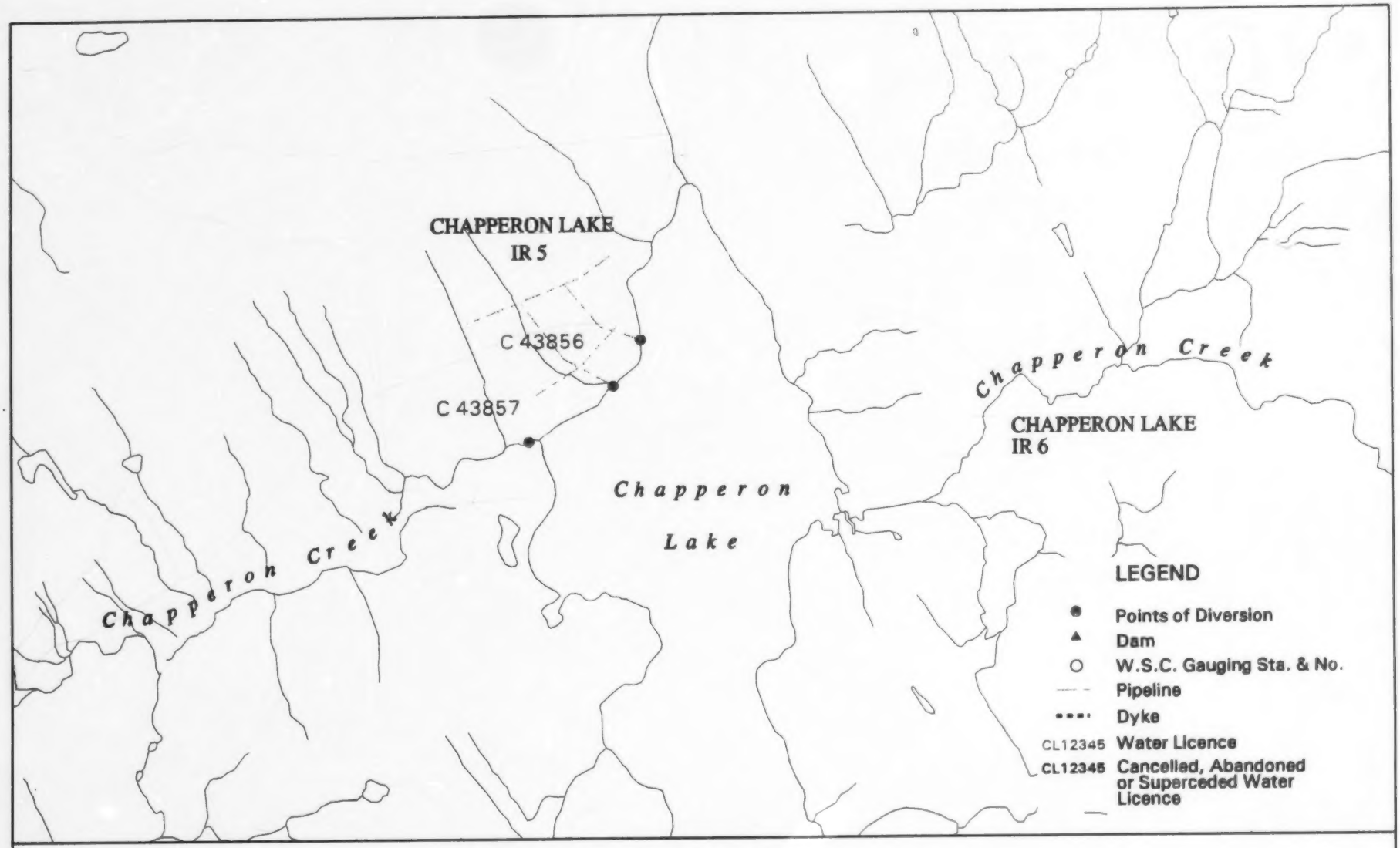
BCGS Map Area	Well No.	Well Tag No.	Lot No.	Plan No.	Blk No.	TP	RC	RG	D.L.	X	Y	Old Well No.	L.D.	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unit.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Apt	Chem Lab	Chem Fld	Chem Site No.
092I.010.3.1.1	001	0000000028027	11	15919					19	09 13 02	001	26	HARMON EST	01-05-1973	38.0	6.0	082	UNK	8.0	GPM	14	UNK	UNC					
092I.010.3.1.1	002	0000000028028	13	10832					1914	09 13 02	002	26	HARMON EST	01-05-1973	42.0	6.0	082	UNK	5.0	GPM	15	UNK	UNC					
092I.010.3.1.1	003	0000000051445	15	10832					1914	09 13 02	003	26	HARMON ESTATES	01-01-1983	84.0	6.0	223	DRI	85.0	GPM	14	UNK	UNC					
092I.010.3.1.1	004	0000000051446	16	10832					1914	09 13 02	004	26	HARMON ESTATES	01-01-1983	80.0	6.0	223	DRI	30.0	GPM	10	UNK	UNC					
092I.010.3.1.1	005	0000000051448	17	10832					1914	09 13 02	005	26	HARMON EST	01-01-1983	52.0	6.0	223	DRI	25.0	GPM	UNK	UNK	UNC					
092I.010.3.1.1	006	0000000051447	18	10832					1914	09 13 02	006	26	HARMON EST	01-01-1983	40.0	6.0	223	DRI	50.0	GPM	UNK	UNK	UNC					
092I.010.3.1.1	007	0000000051450	23	10832					1914	09 13 02	007	26	HARMON EST	01-01-1983	40.0	6.0	223	DRI	25.0	GPM	UNK	UNK	UNC					
092I.010.3.1.1	008	0000000060257	3	15919					1914	09 13 02	008	26	HONCK PARK RD.	13-03-1993	300.0	0.0	101	DRI	5.0	GPM	70	85	BED					
092I.010.3.1.1	009	0000000060258	1	10832					1914	09 13 02	009	26	HARMON ESTATES RD.	13-03-1993	60.0	0.0	101	DRI	50.0	GPM	12		UNC	54-60				
092I.010.3.2.2	001	0000000031905							110	08 14 33	001	26		01-01-1975	12.0	0.0	UNK	DUG			UNK	UNK	UNC					
092I.010.3.2.2	002	0000000003964							109	08 14 33	002	26		01-01-1948	13.0	0.0	UNK	DUG			6	UNK	UNC				Y	
092I.010.3.2.2	003	0000000011639								09 14 04	001	26		01-01-1950	15.0	0.0	UNK	DUG			7	UNK	UNC				Y	
092I.010.3.2.2	004	0000000011640								09 14 04	002	26		01-01-1950	10.0	0.0	UNK	DUG			8	UNK	UNC					
092I.010.3.2.3	001	0000000018060								09 14 04	001	26	NICOLA LAKE	01-11-1964	102.0	8.0	086	DRI	93.0	IGM	36	UNK	UNC					
092I.010.3.2.4	001	0000000014169								09 14 04	002	26		01-01-1954	16.0	0.0	UNK	UNK			12	UNK	UNC					
092I.010.3.4.1	001	0000000025136							3521	09 14 08	001	26		29-07-1971	400.0	6.0	120	DRI			UNK	UNK	UNC					
092I.010.3.4.1	002	0000000025137							108	09 14 08	002	26	HONCK PARK	29-07-1971	400.0	0.0	120	DRI			UNK	UNK	UNC					
092I.010.4.1.3	001	0000000026072				97	3		108	00 00 00	001	26	HONCK PARK	09-10-1970	300.0	8.0	108	DRI	310.0	GPM	34	UNK	UNC	284-300				
092I.010.4.1.3	002	0000000057980								00 00 00	000	26		22-03-1988	150.0	7.0	038	DRI			33	UNK	UNC	144-150				
092I.010.4.3.4	001	0000000044513				97				00 00 00	001	26		04-03-1980	247.0	0.0	101	UNK			200	UNK	UNC	230-231				
092I.010.4.3.4	002	0000000018583				97				00 00 00	002	26		01-01-1964	7.0	0.0	UNK	DUG			4	UNK	UNC				Y	
092I.010.4.3.4	003	0000000011648				97	13		106	00 00 00	000	26		01-01-1950	15.0	0.0	UNK	DUG			7	UNK	UNC					
092I.019.2.3.1	001	0000000057835								00 00 00	001	26	SPAHOMIN CREEK	06-01-1988	57.0	7.0	023	UNK			21	56	UNC	48-53				
092I.019.2.3.3	001	0000000011649				86				00 00 00	003	26		01-01-1950	8.0	0.0	UNK	DUG			UNK	UNK	UNC					
092I.019.2.3.3	002	0000000011650				86				00 00 00	000	26		01-01-1950	74.0	0.0	096	DRI				110	BED					
092I.019.3.1.3	001	0000000059627							440	00 00 00	001	26	DOUGLAS LAKE	08-04-1991	140.0	6.0	038	DRI				138	UNC	130-134				
092I.019.3.3.2	001	0000000030488				96	10		731	00 00 00	000	26	DOUGLAS LK. RD.- SUB	03-06-1974	131.0	6.0	108	UNK	20.0	GPM	95	50	BED					
092I.019.4.2.1	001	0000000061235							806	00 00 00	002	26	GLIMPSE LAKE ROAD	13-07-0094	220.0	6.0	038	DRI	40.0	GPM								
092I.020.2.1.3	001	0000000034292	47			96				00 00 00	003	26	DOUGLAS LAKE RD.	03-02-1976	130.0	8.0	UNK	UNK	24.0	USGM	7	UNK	UNC	16-20		Y		3401733
092I.020.2.1.3	001	0000000039153				97	33			00 00 00	004	26	NICOLA LAKE IR 1	01-11-1973	25.0	0.0	064	UNK			UNK	UNK	UNC					
092I.020.2.1.3	002	0000000037237				97	33			00 00 00	005	26	NICOLA BAY RESORT &	21-05-1977	40.0	6.0	134	DRI	20.0	GPM	UNK	UNK	UNC					
092I.020.2.1.3	003	0000000022351				97								01-05-1969	60.0	6.5	130	DRI	25.0	GPM	UNK	UNK	UNC	62-66				

---------- END OF REPORT WELL4600 ----------

SCHEDULE of Indian Reserves in the Dominion—*Continued.*

BRITISH COLUMBIA, LYTTON AGENCY—*Continued.*

No.	Name.	Where Situated.	Tribe or band.	Area, Acres.	Remarks.
1	Nicola Lake.....	Kamloops district, on the eastern shore of Nicola lake, at its head, in townships 96 and 97.	Nicola (Upper).....	2,692·00	200 inches of water recorded from Nicola river.
2	Hamilton Creek Fishery or Quilchena.	Kamloops district, on the southern shore of Nicola lake at the mouth of Hamilton or Quilchena creek, in township 97.	"	60·00	50 inches of water recorded from Quilchena creek.
3	Douglas Lake.....	Kamloops district, at the lower end of Douglas lake, partly in township 96.	"	23,047·00	300 inches of water recorded from Spahomin creek; 100 inches from lake at head of Lauder creek; 50 inches from a spring on southwest side of reserve.
4	Spahomin Creek.....	Kamloops district, on Spahomin creek, about seven miles from its mouth.	"	320·00	50 inches of water recorded from Spahomin creek.
5	Chapperon Lake.....	Kamloops district, on the western shore of of Chapperon lake.	"	725·00	50 inches of water recorded from Murray creek.
6	Chapperon Creek Fishery	Kamloops district, on Upper Chapperon creek, about three quarters of a mile from its mouth.	"	15·00	25 inches of water recorded from Upper Chapperon creek.
7	Salmon Lake.....	Kamloops district, on the trail from Nicola to Grand Prairie, N. of Chapperon lake.	"	172·00	Reserves Nos. 1 to 7 were allotted by Commissioner Sproat, Sept. 28, 1878, they were surveyed in 1879.
8	Spahomin Creek.....	Kamloops district, between reserves Nos. 3 and 4.	"	3,857·00	Allotted by Commissioner O'Reilly, Oct. 10, 1889. Surveyed 1894. Approved, May 7th, 1895.
1	Kupchynalth (Upper).....	Yale district, about 8 miles south of Lytton in section 30, township 13, range 26, west of 6th meridian.	Siska Flat.....	20·00	20 inches of water recorded from Kupchynalth creek, and all the water from all other sources of water-supply which may be found on the two Kupchynalth reserves.
2	" (Lower)....	Yale district, on the left bank of the Fraser river, about 8 miles below Lytton, in section 25, township 13, range 27, west of 6th meridian.	"	15·50	
3	Siska Flats.....	Yale district, on the left bank of the Fraser about 7 miles below Lytton, in section 36, township 13, range 27, west of 6th meridian..	"	91·50	50 inches of water recorded from Siska creek, and from any other sources that may be found available, including a spring on the hillside.
4	Grave-yard.....	Yale district, on the Cariboo wagon road, 7½ miles south of Lytton, in section 30, township 13, range 26, west of 6th meridian.	"	0·67	



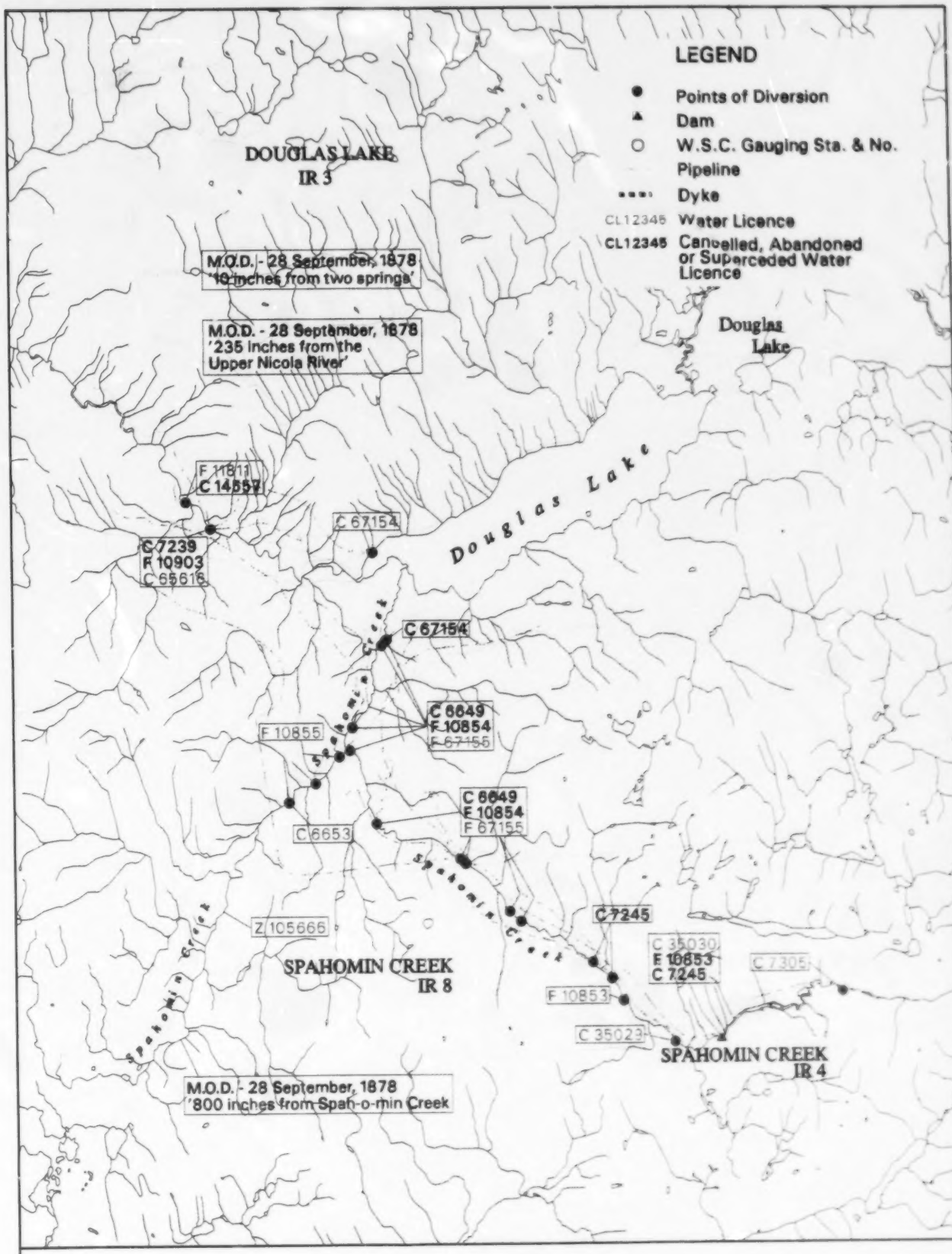
Chapperon Lake

Scale 1:30,000

Ministry of Environment, Lands & Parks

Date: April 14, 2000

Environment & Lands Division



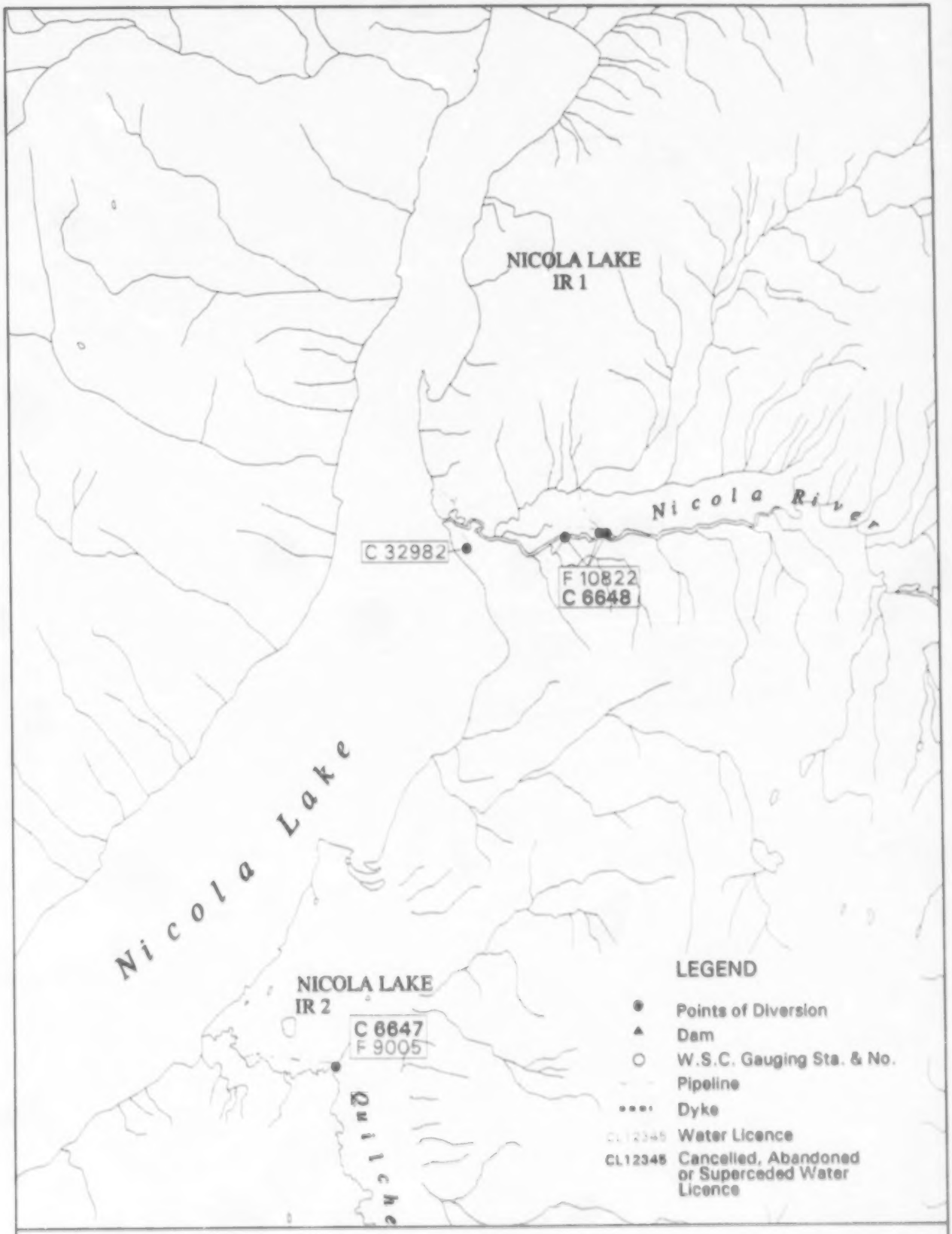
Douglas Lake

Scale 1:80,000

Ministry of Environment, Lands & Parks

Date: April 16, 2000

Environment & Lands Division



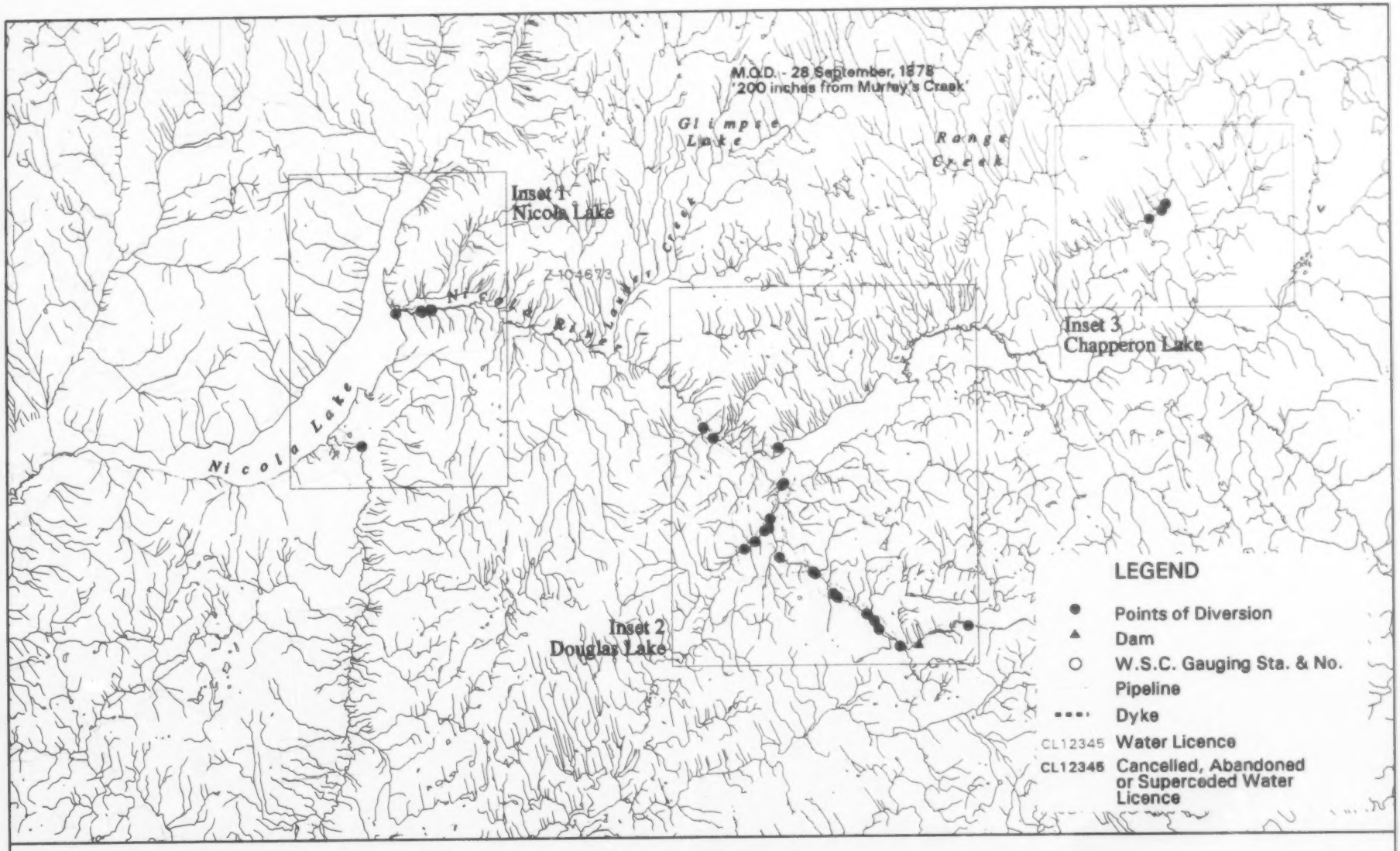
Nicola Lake

Scale 1:50,000

Ministry of Environment, Lands & Parks

Date: April 16, 2000

Environment & Lands Division



Upper Nicola

Scale 1:200,000

Ministry of Environment, Lands & Parks

Date: April 16, 2000

Environment & Lands Division